

FIG. 1

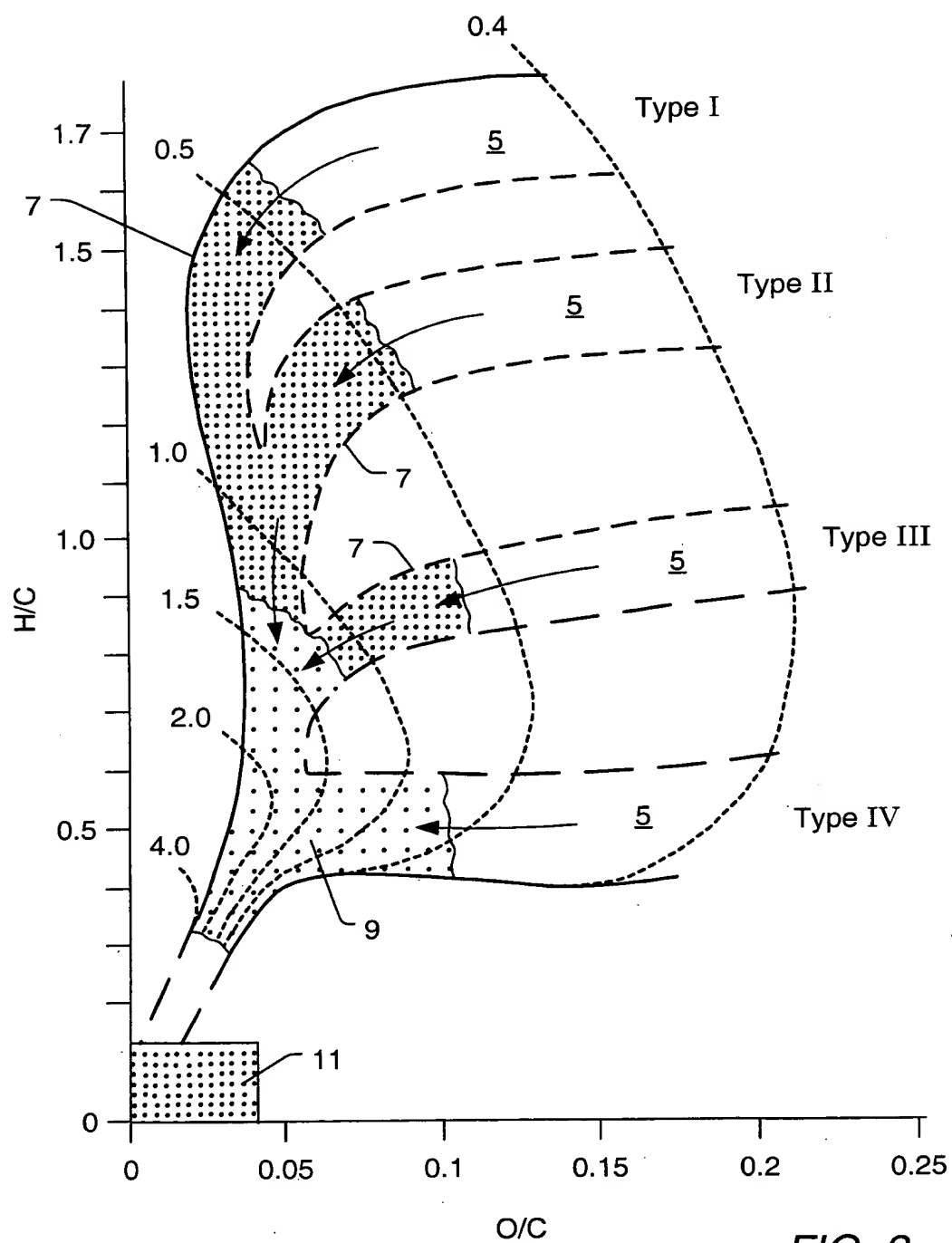


FIG. 2

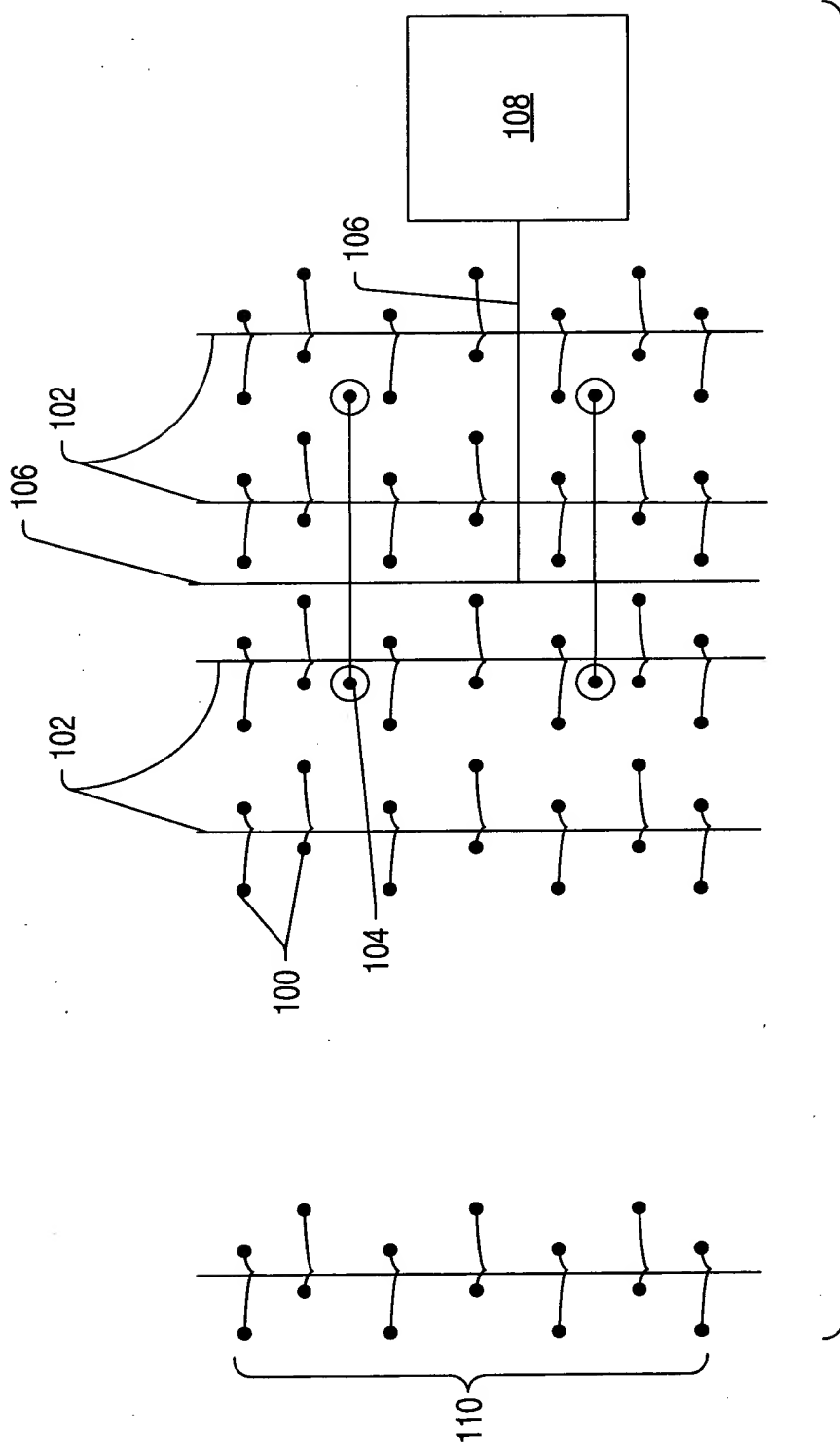


FIG. 3

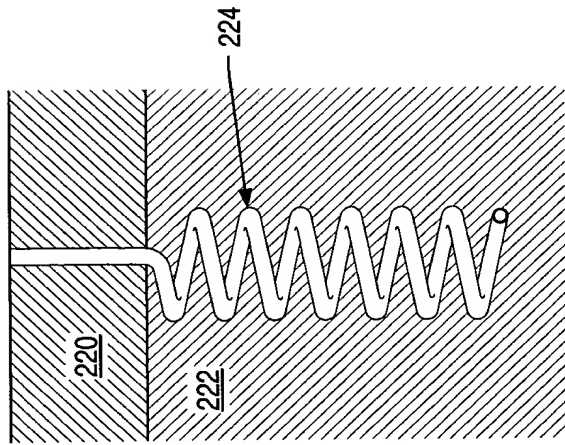


FIG. 3a

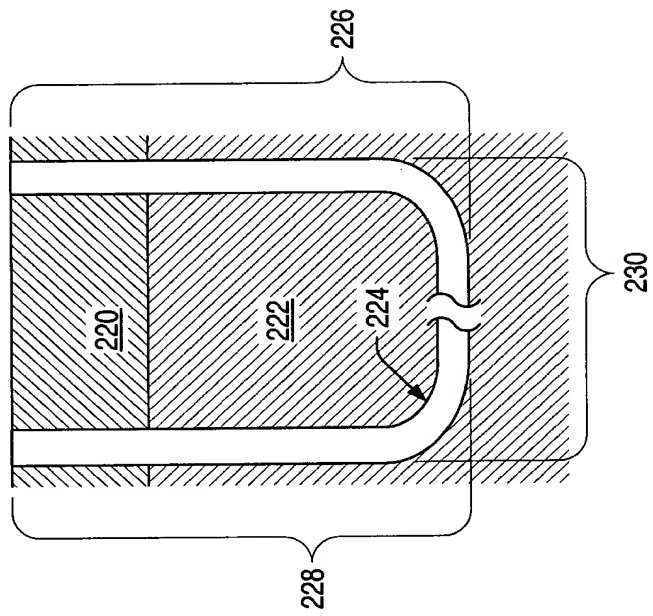


FIG. 3b

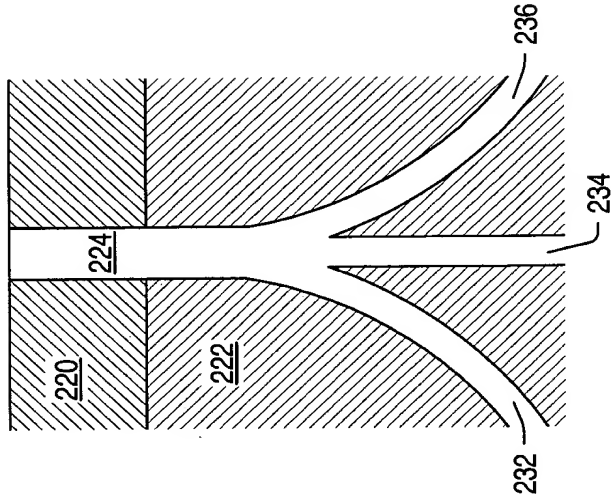


FIG. 3c

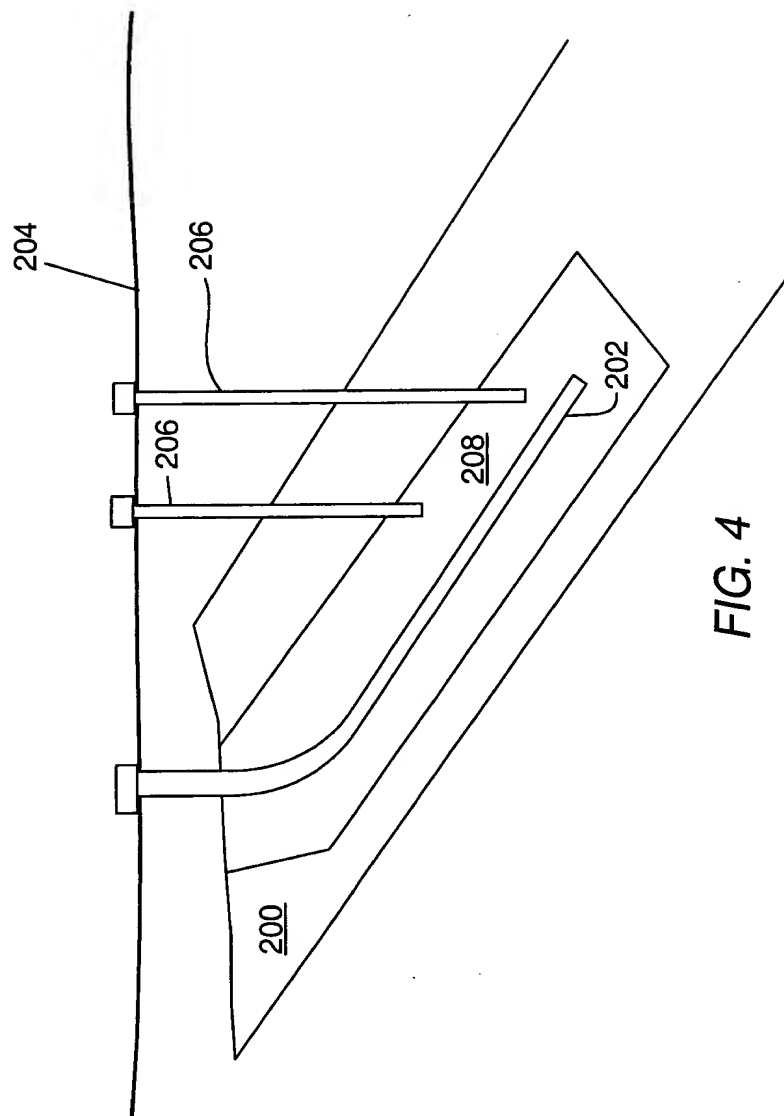
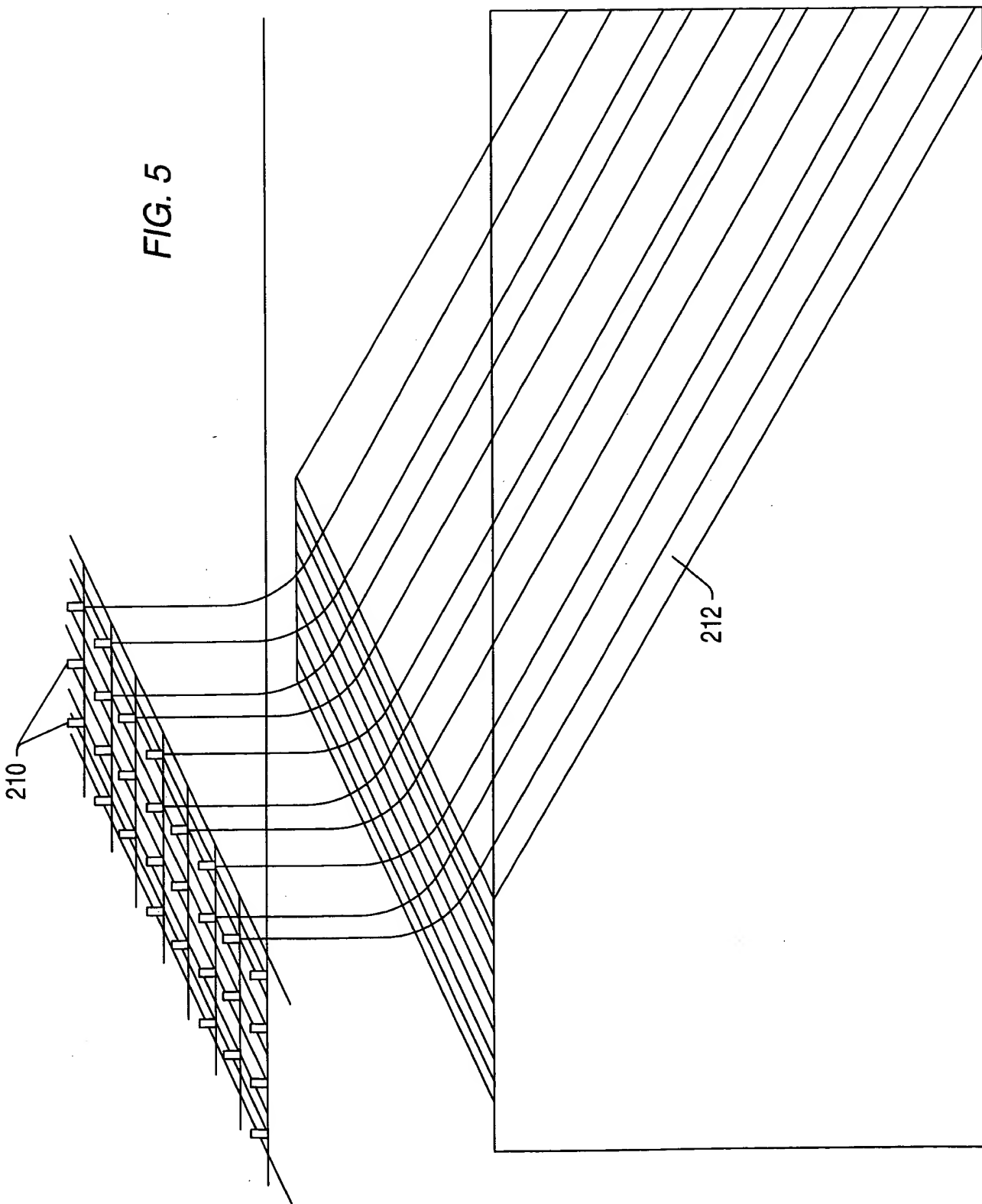


FIG. 4

FIG. 5



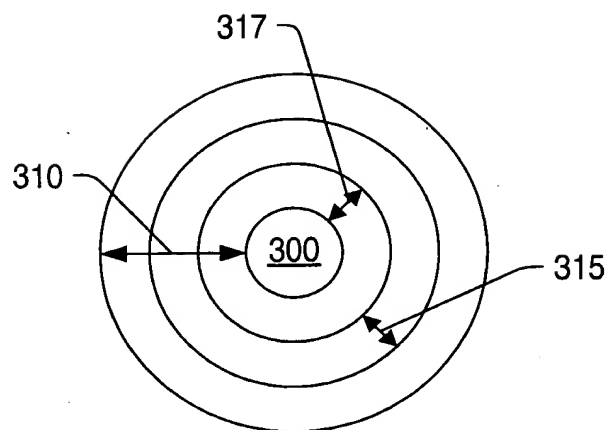


FIG. 6

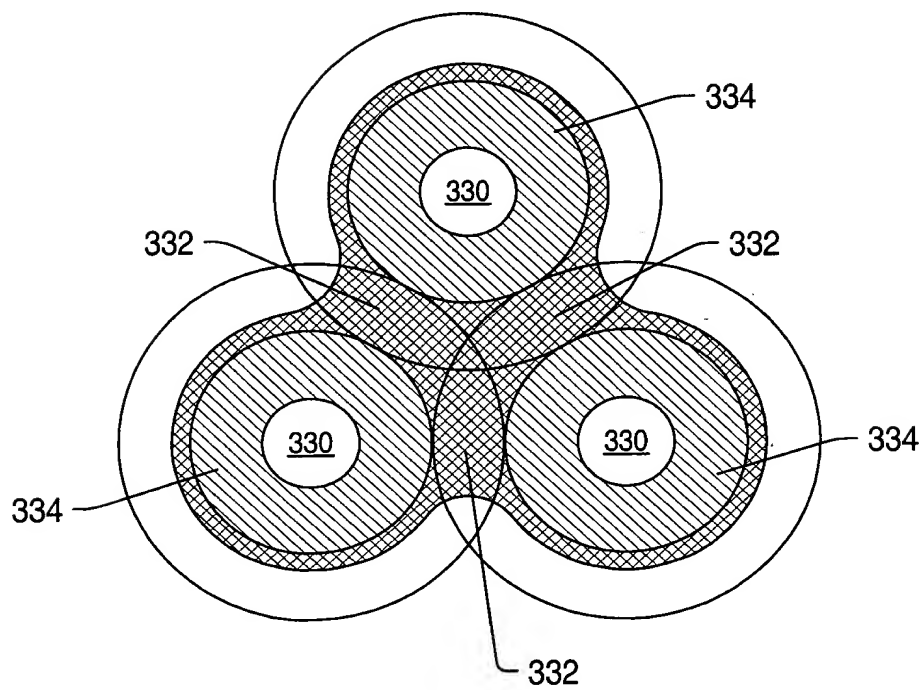


FIG. 7

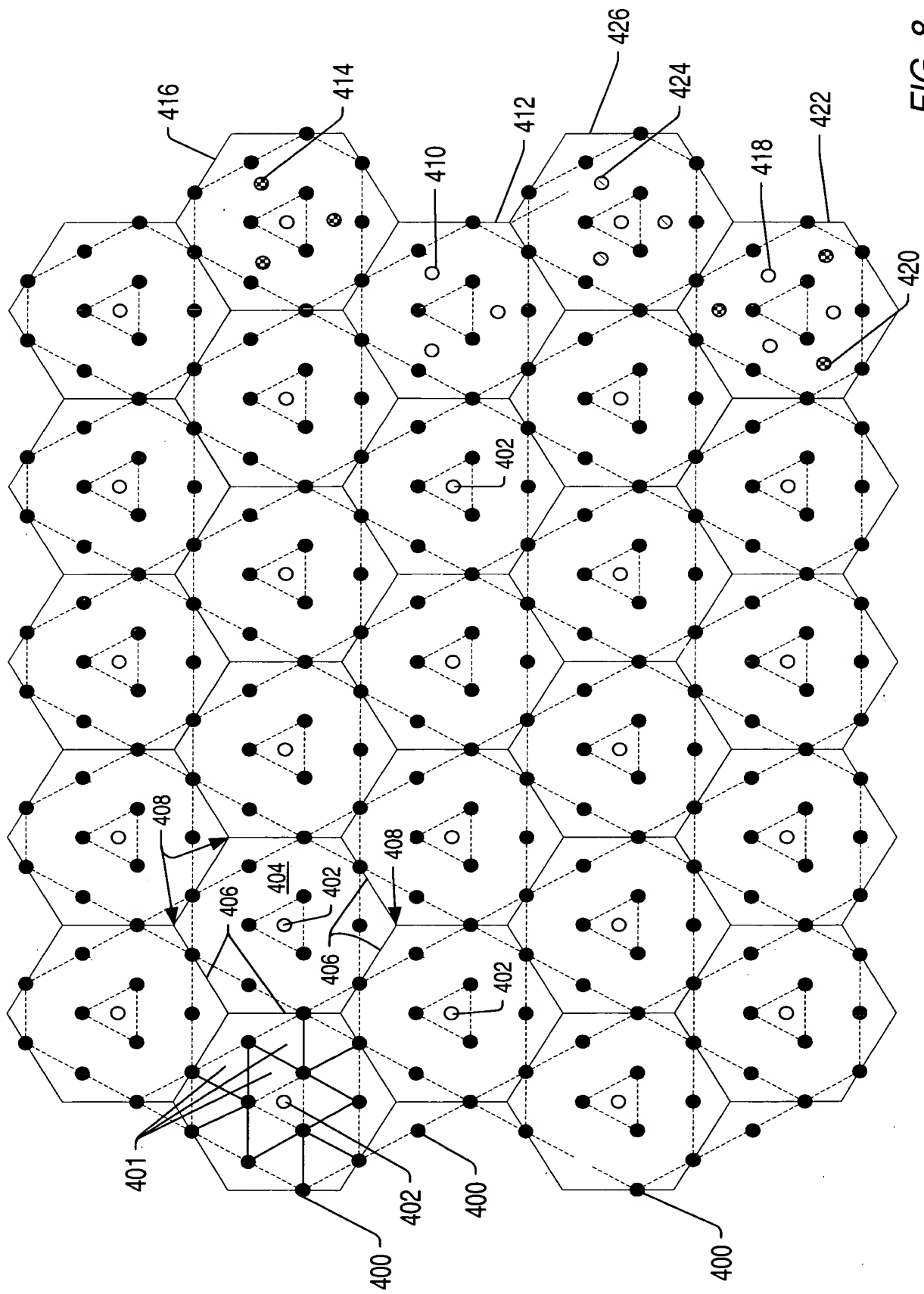


FIG. 8

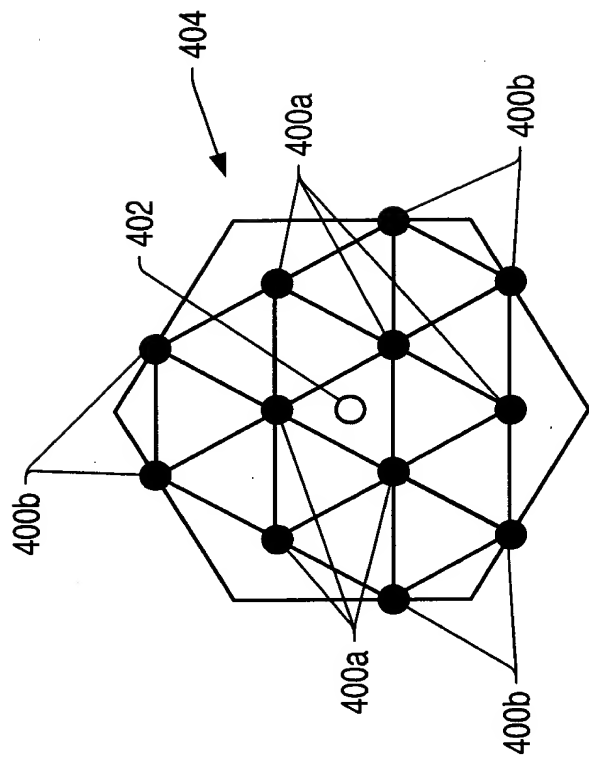


FIG. 9

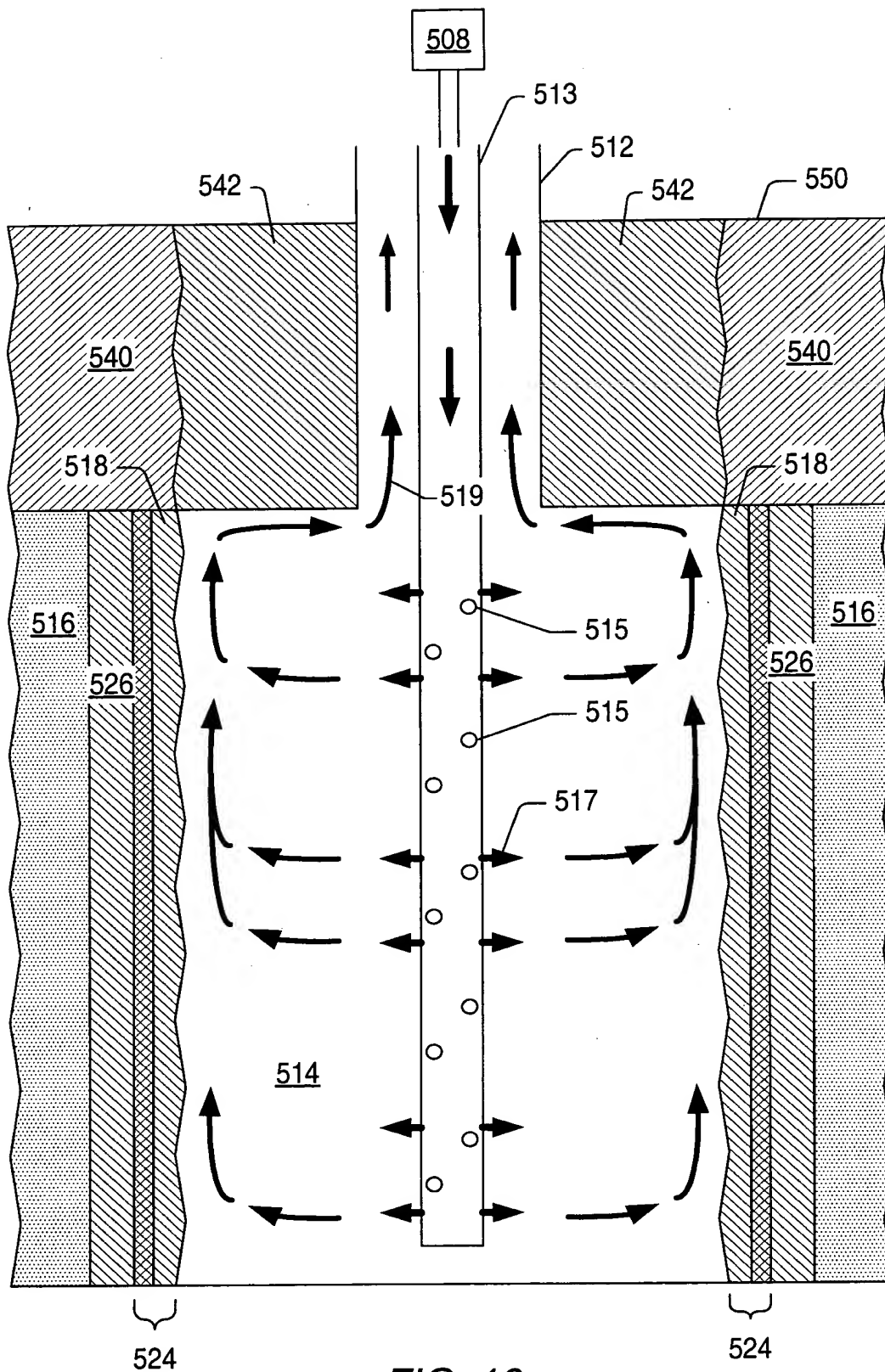
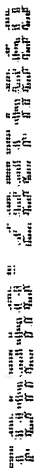


FIG. 10

[illegible]

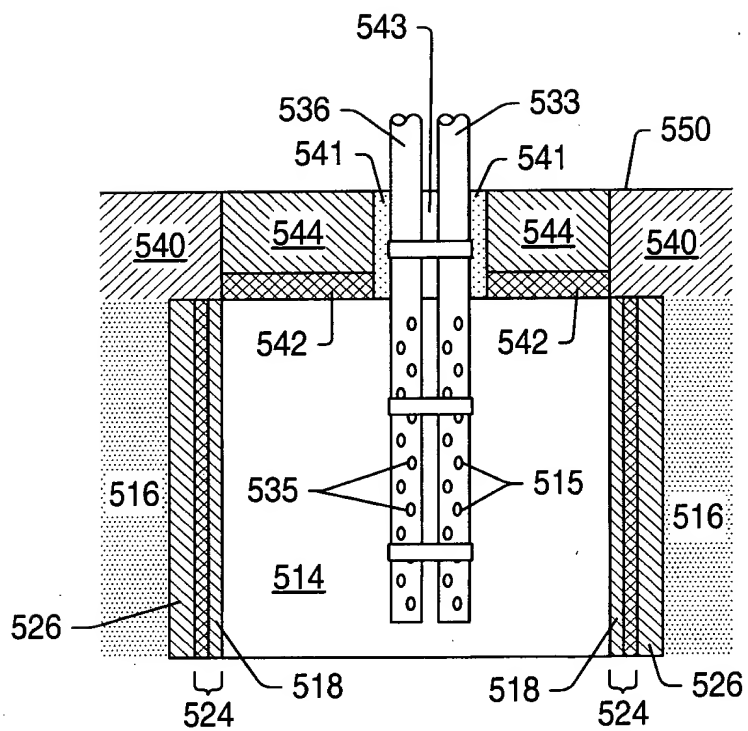


Fig. 13

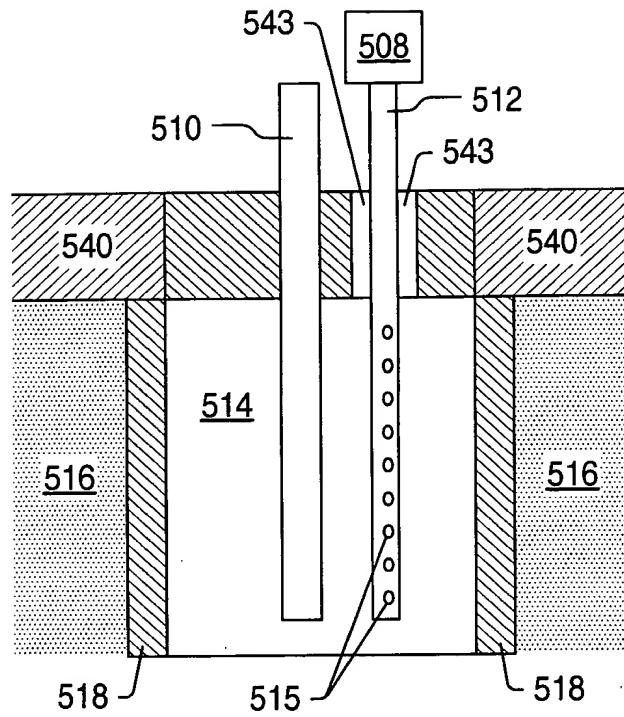


FIG. 14

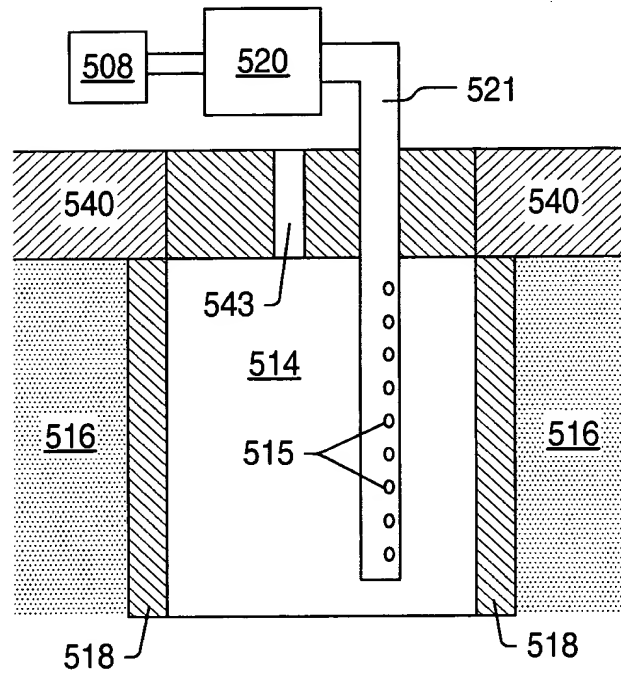


FIG. 15

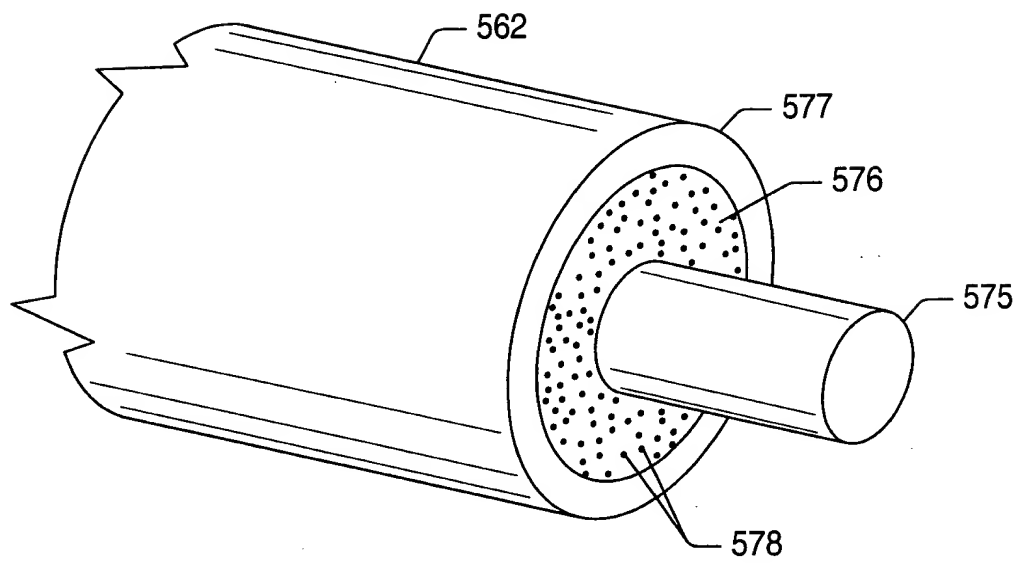


FIG. 16

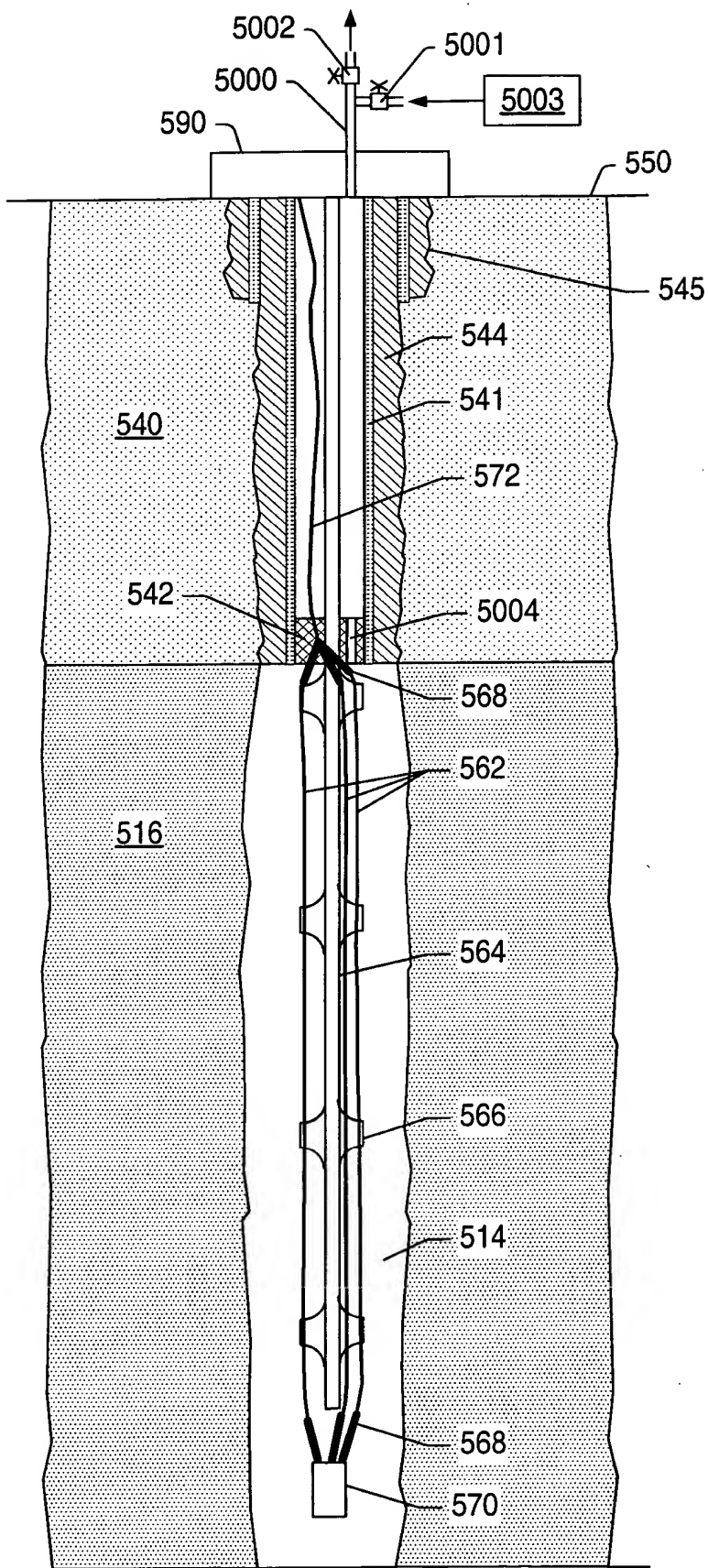


FIG. 17

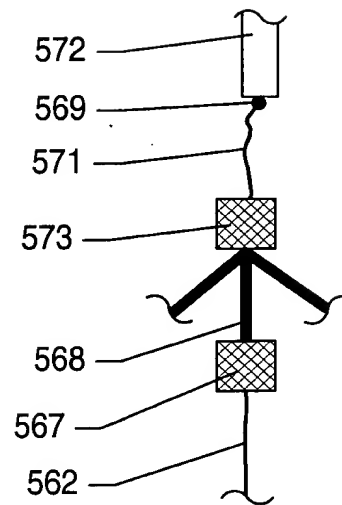


FIG. 17A

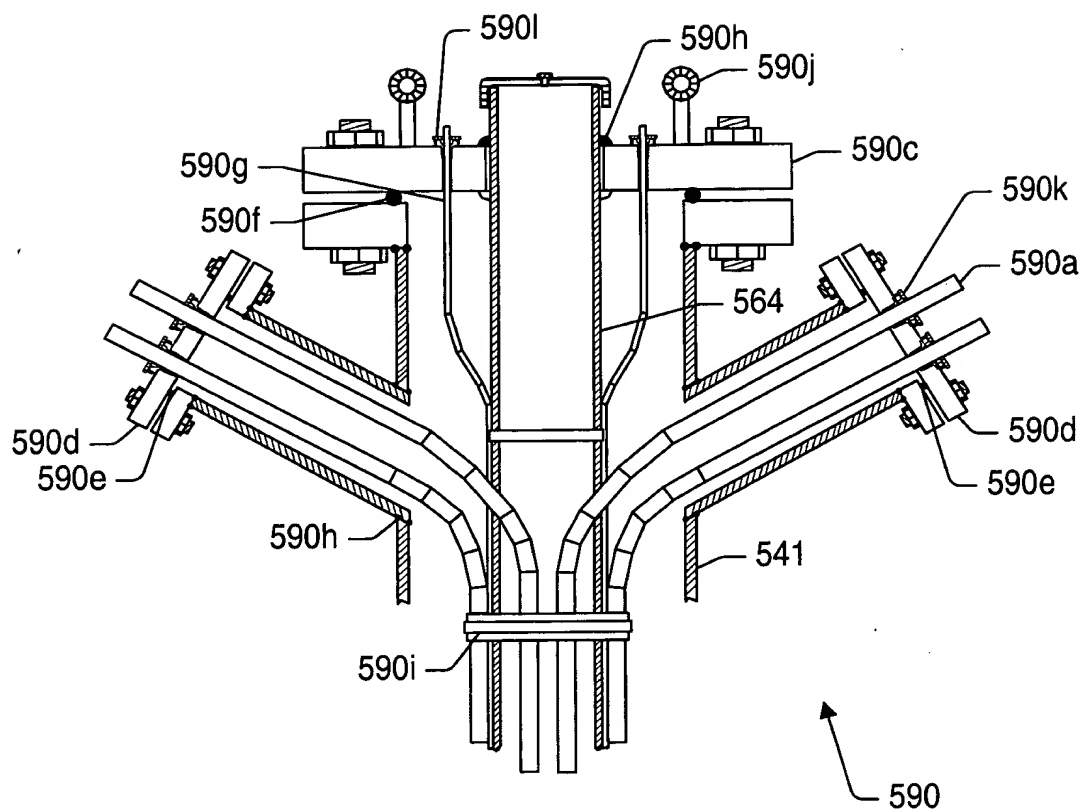


FIG. 18

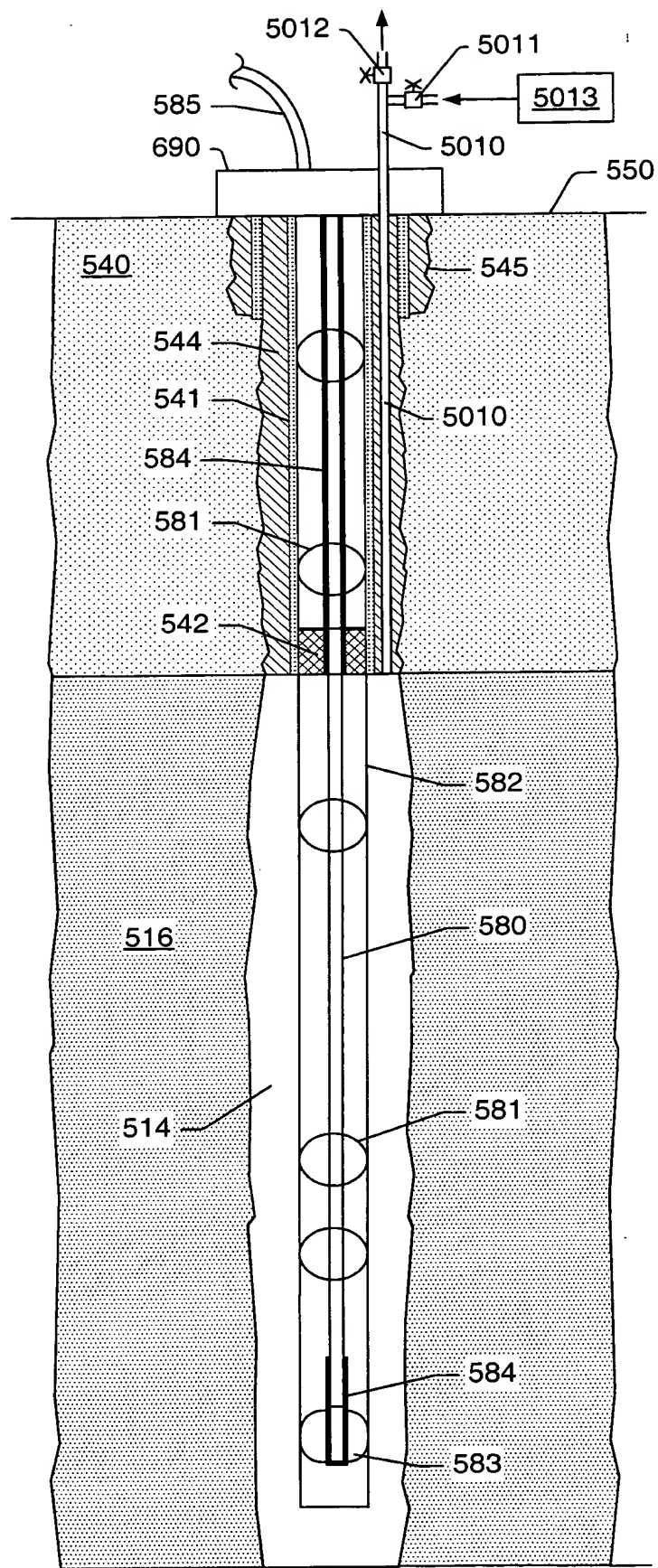


FIG. 19

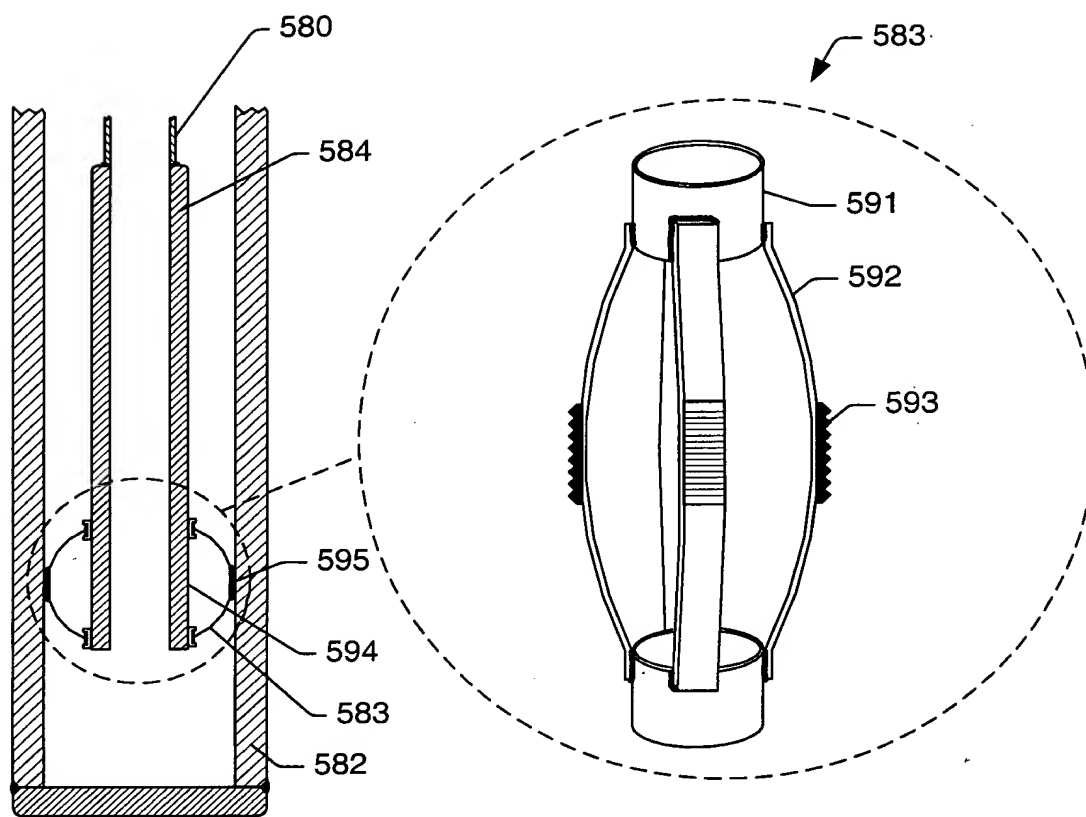


FIG. 20

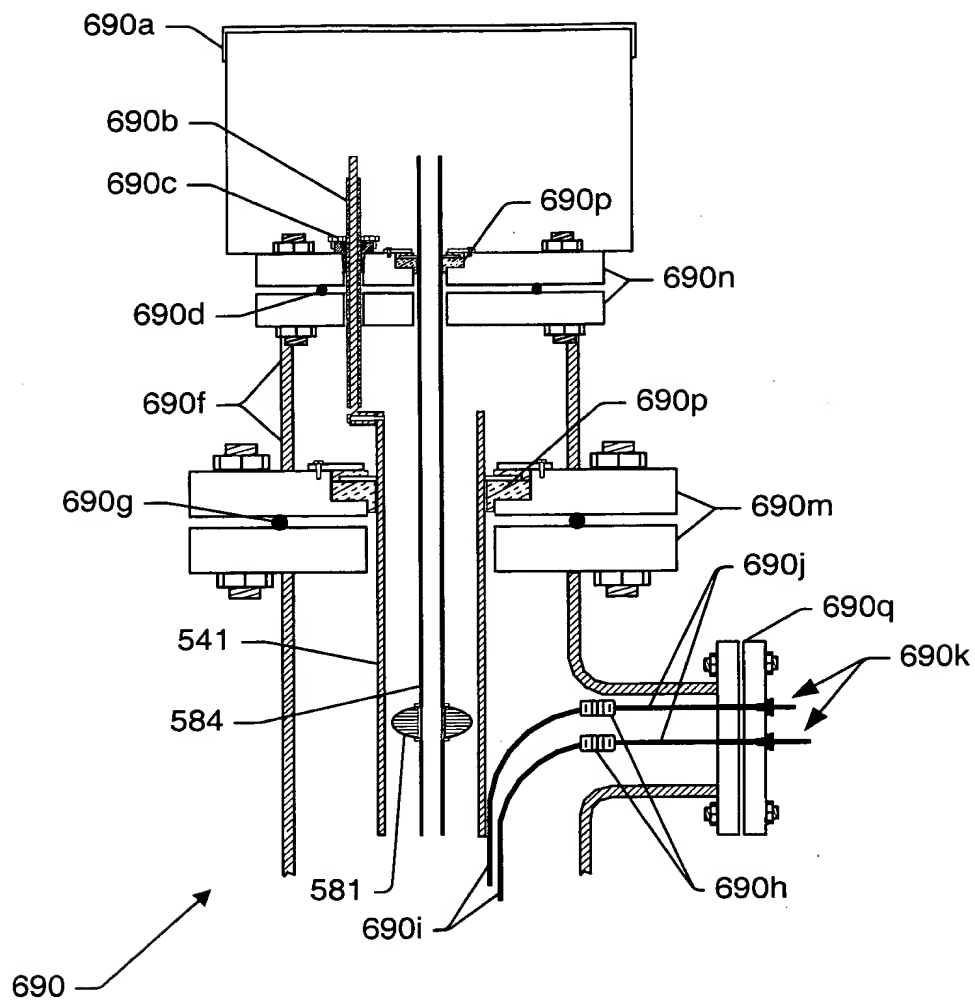


FIG. 21

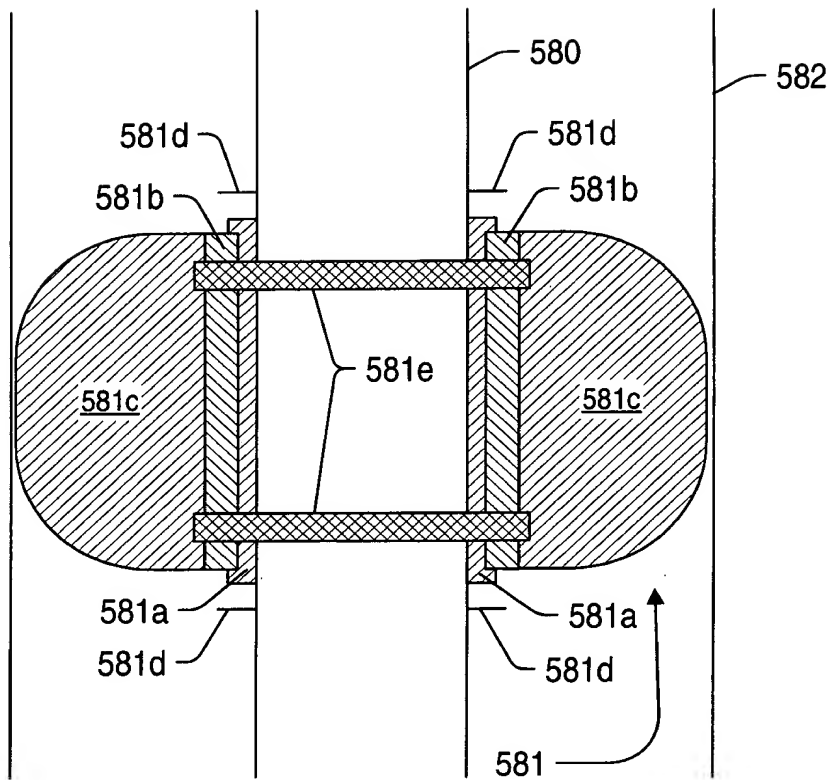


FIG. 22

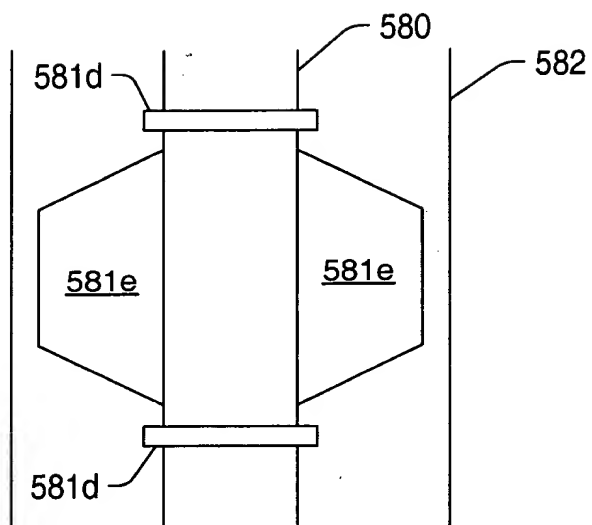


FIG. 23a

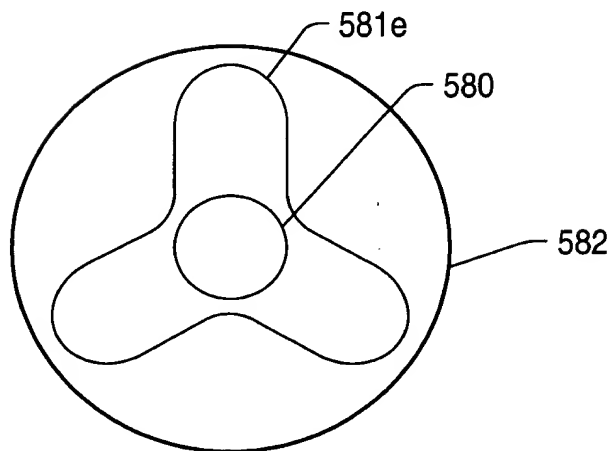


FIG. 23b

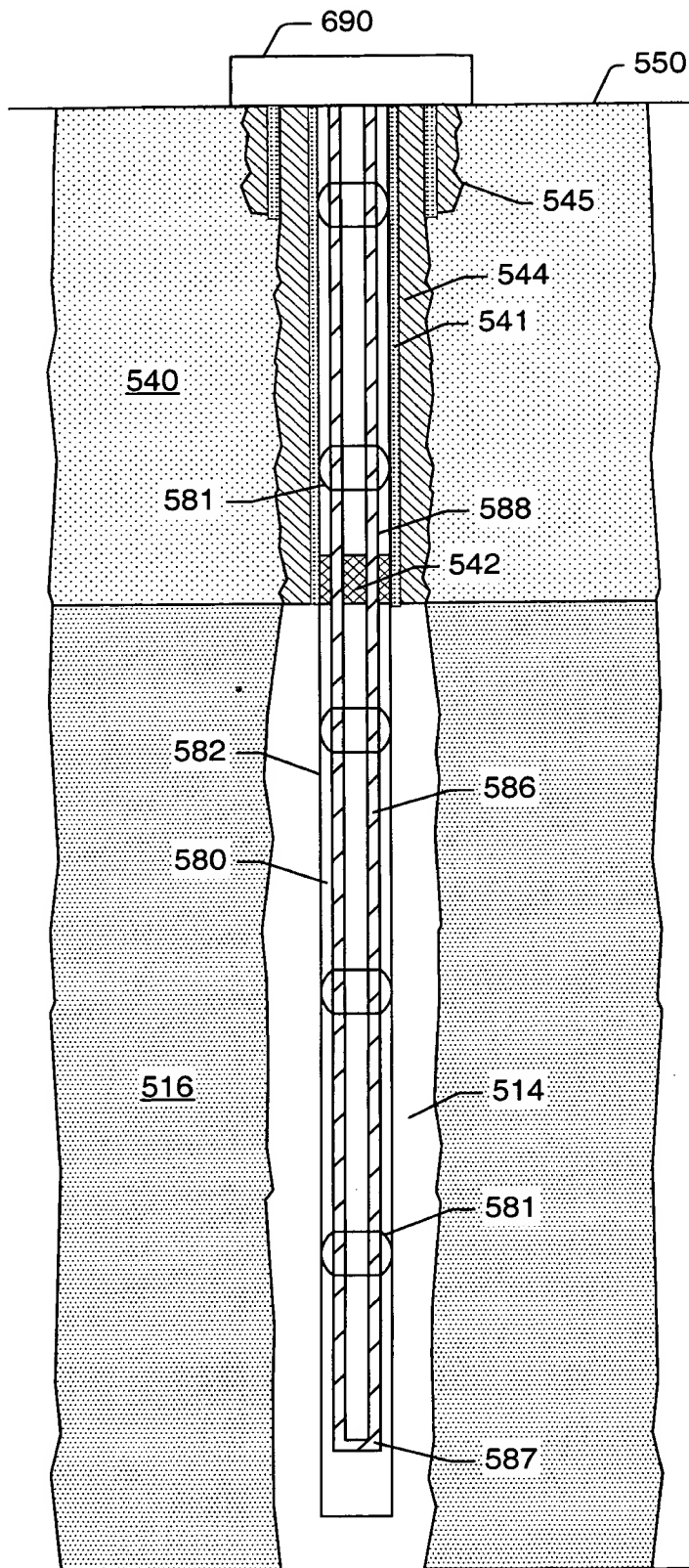


Fig. 24

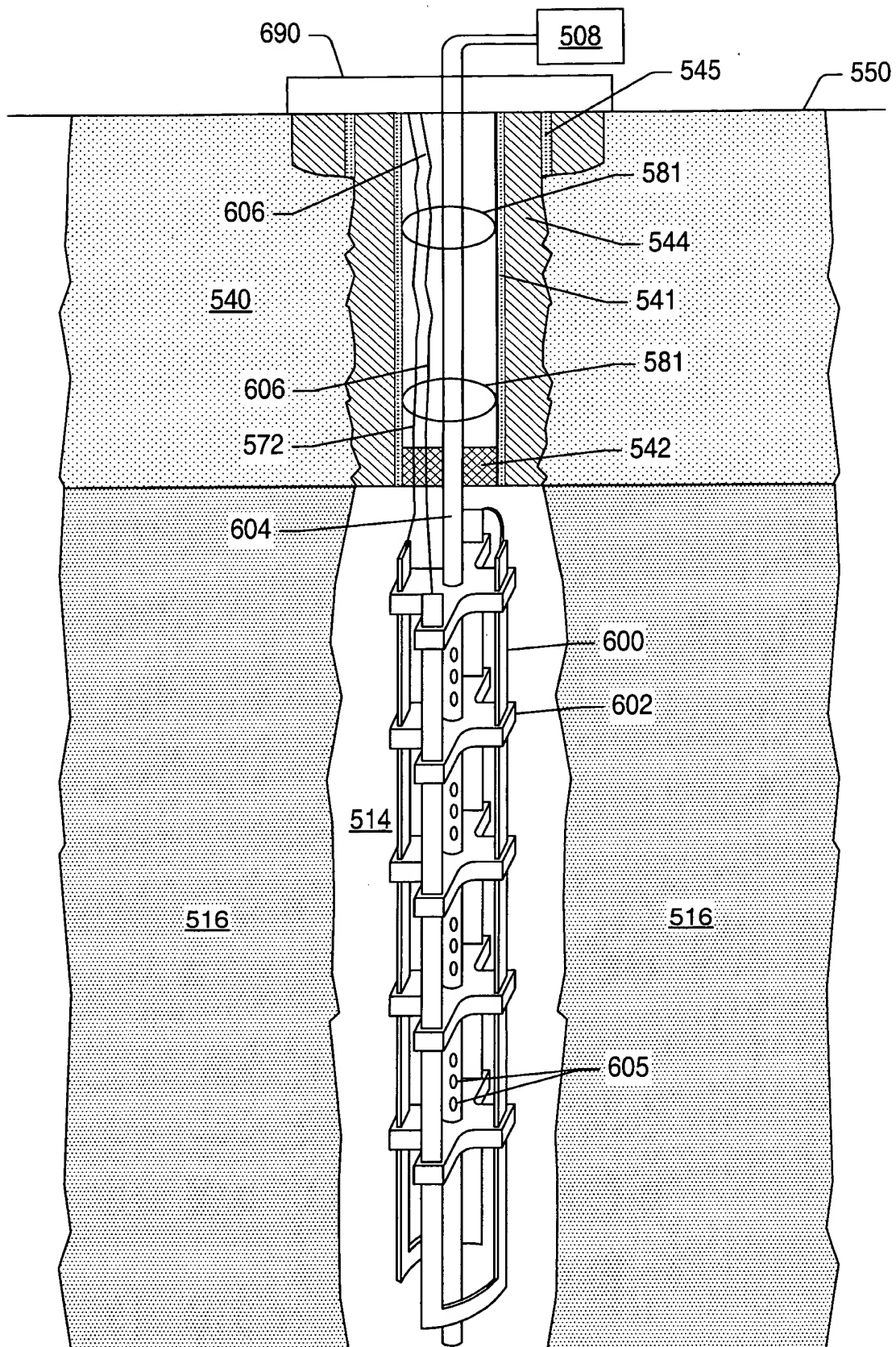


FIG. 25

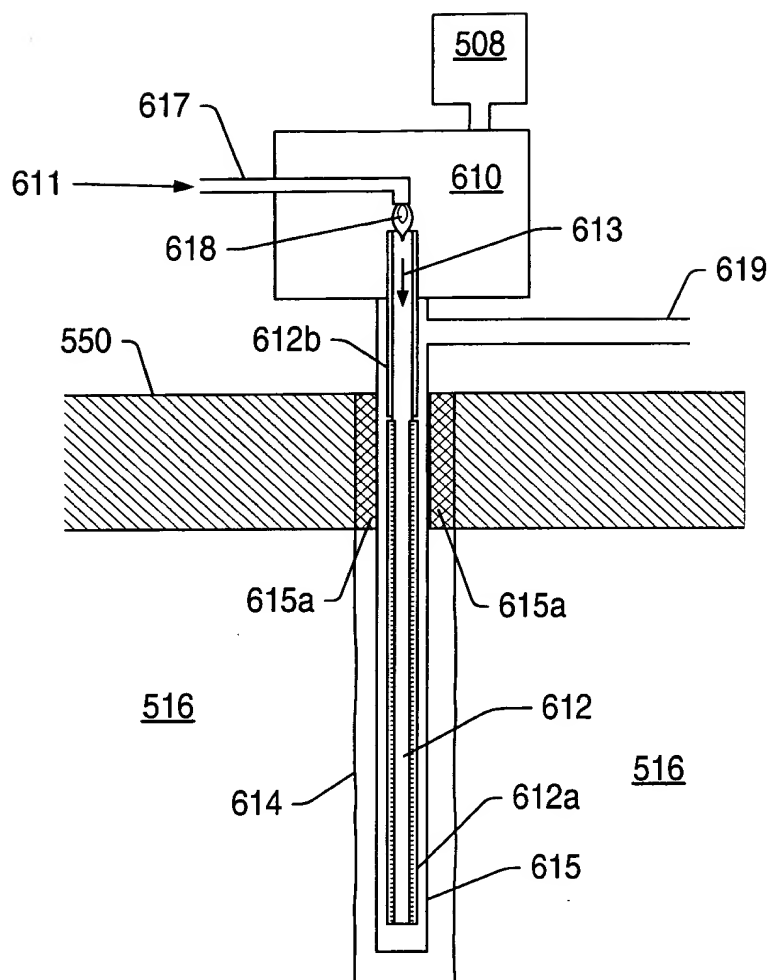


FIG. 26

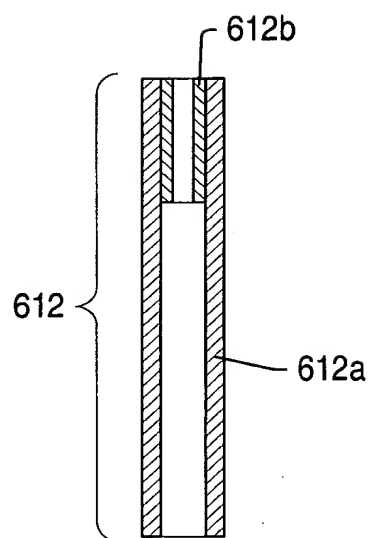


FIG. 27

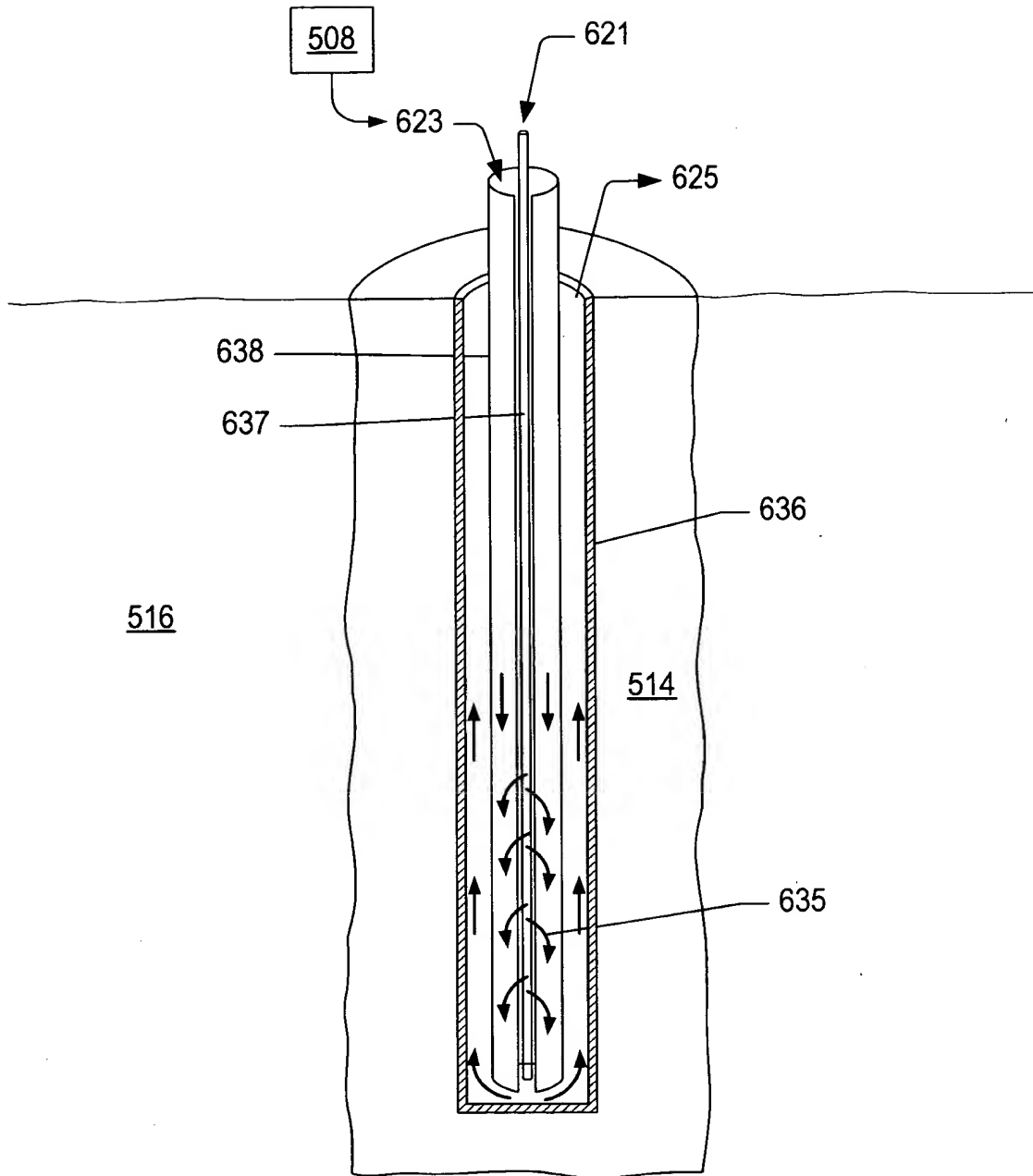


FIG. 28

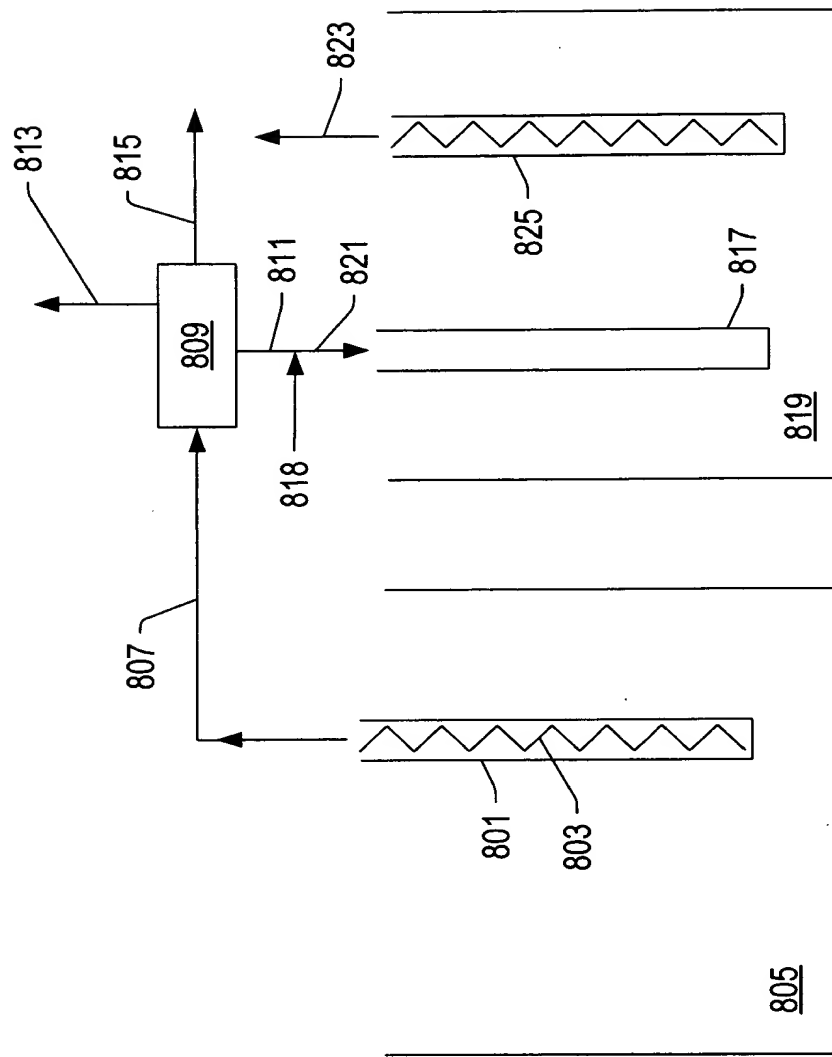


FIG. 29

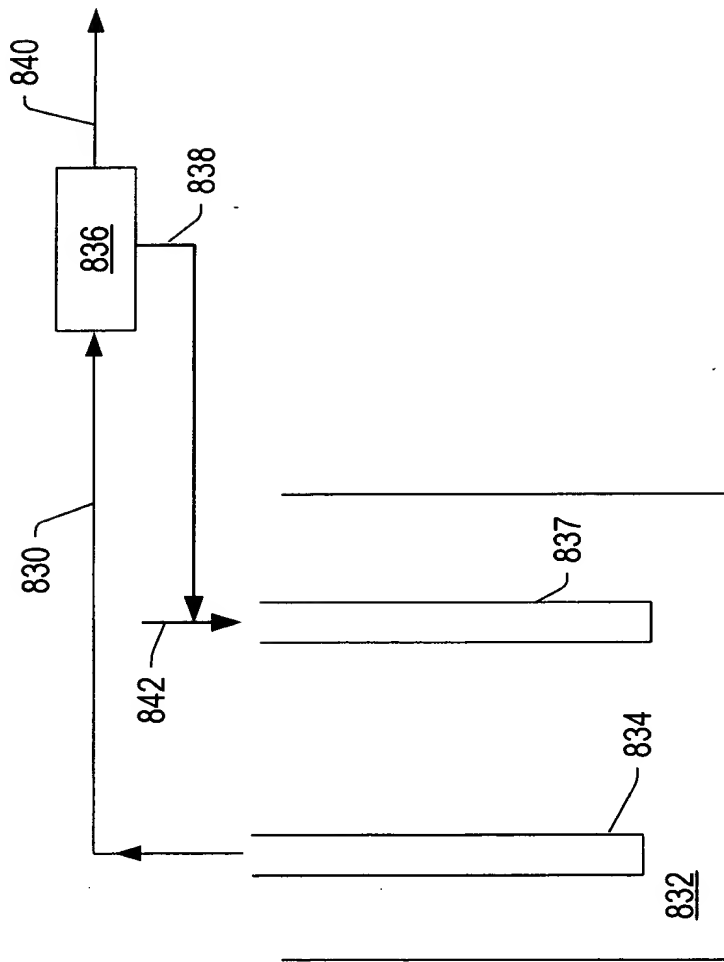


FIG. 30

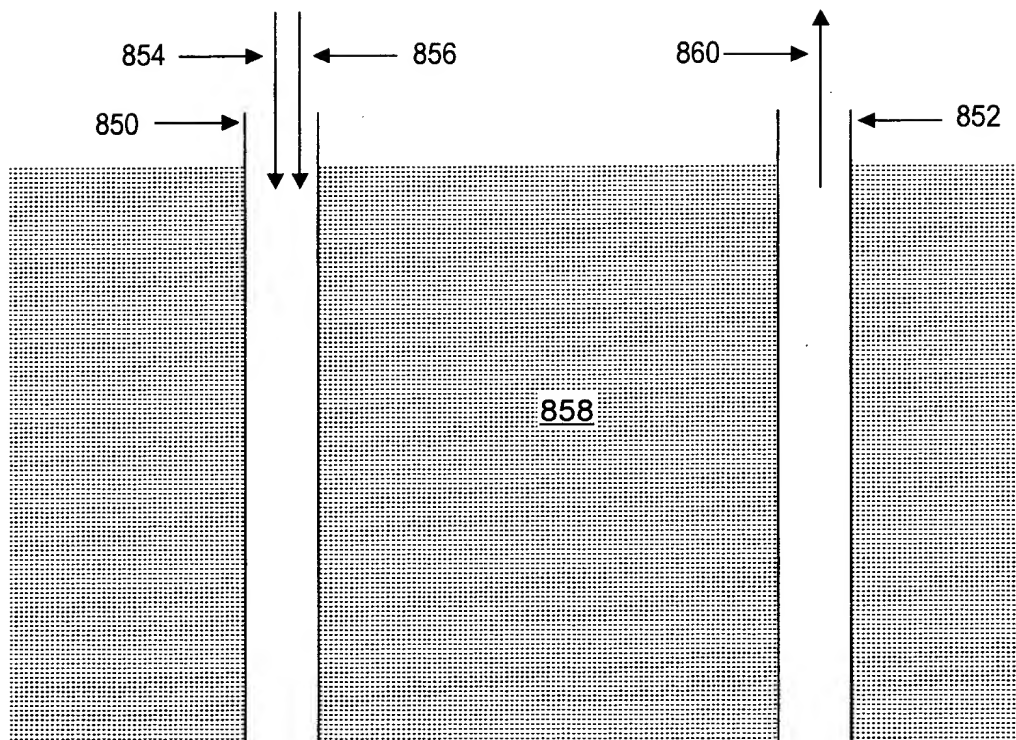


FIG. 31

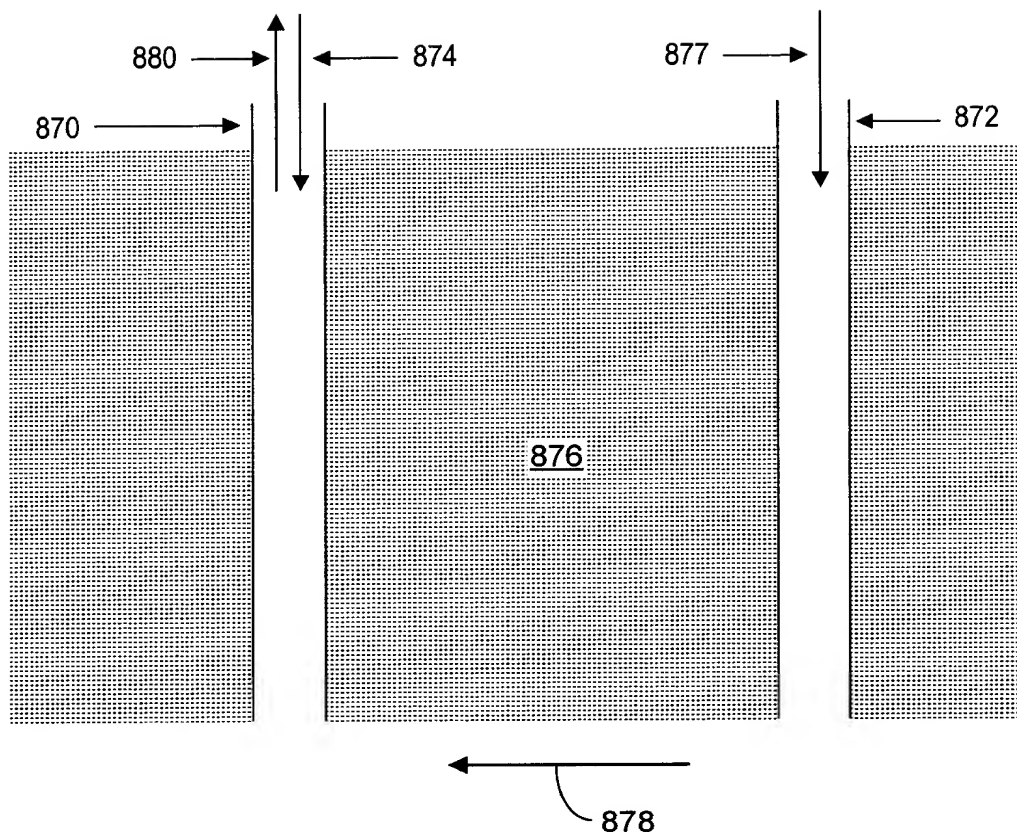


FIG. 32

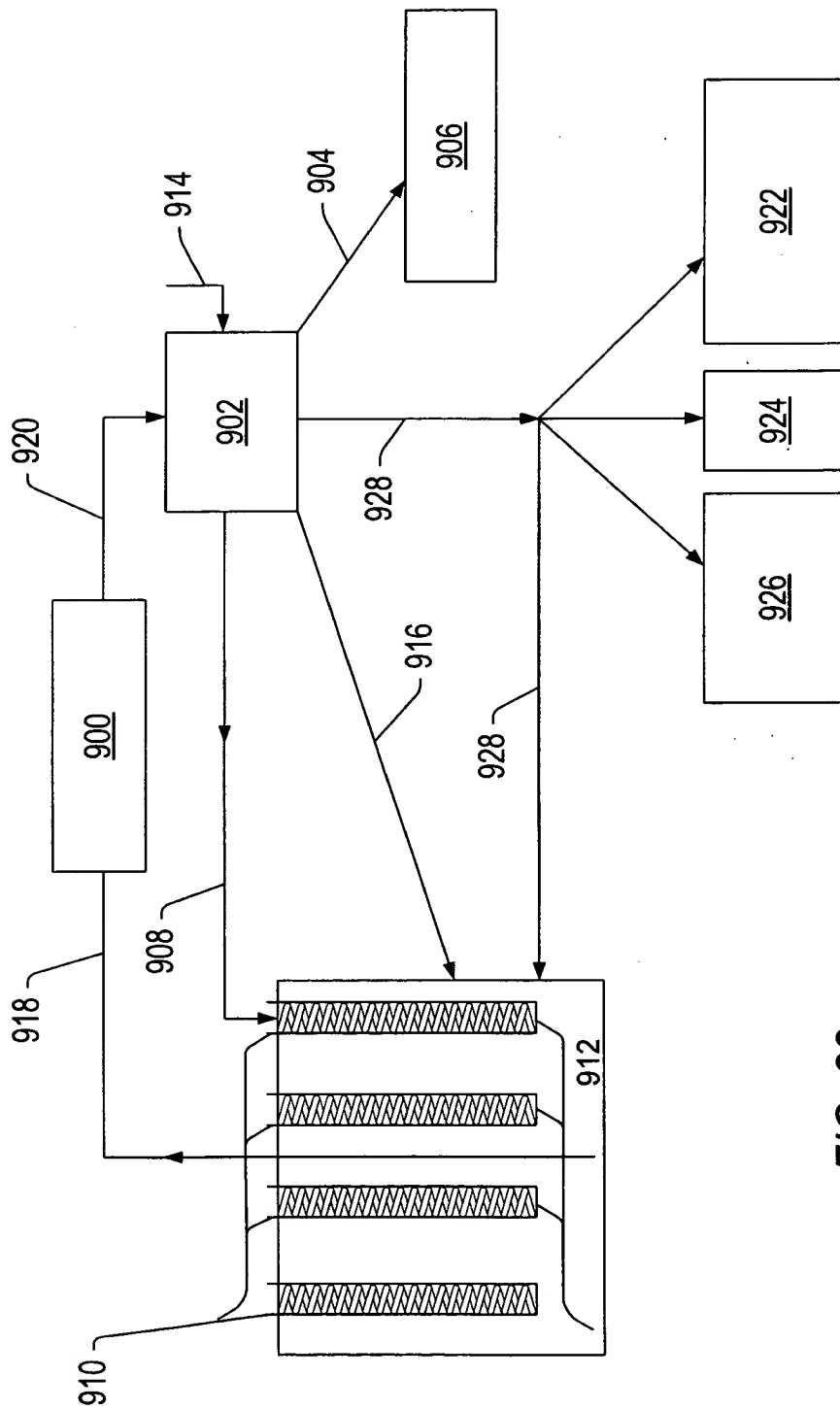


FIG. 33

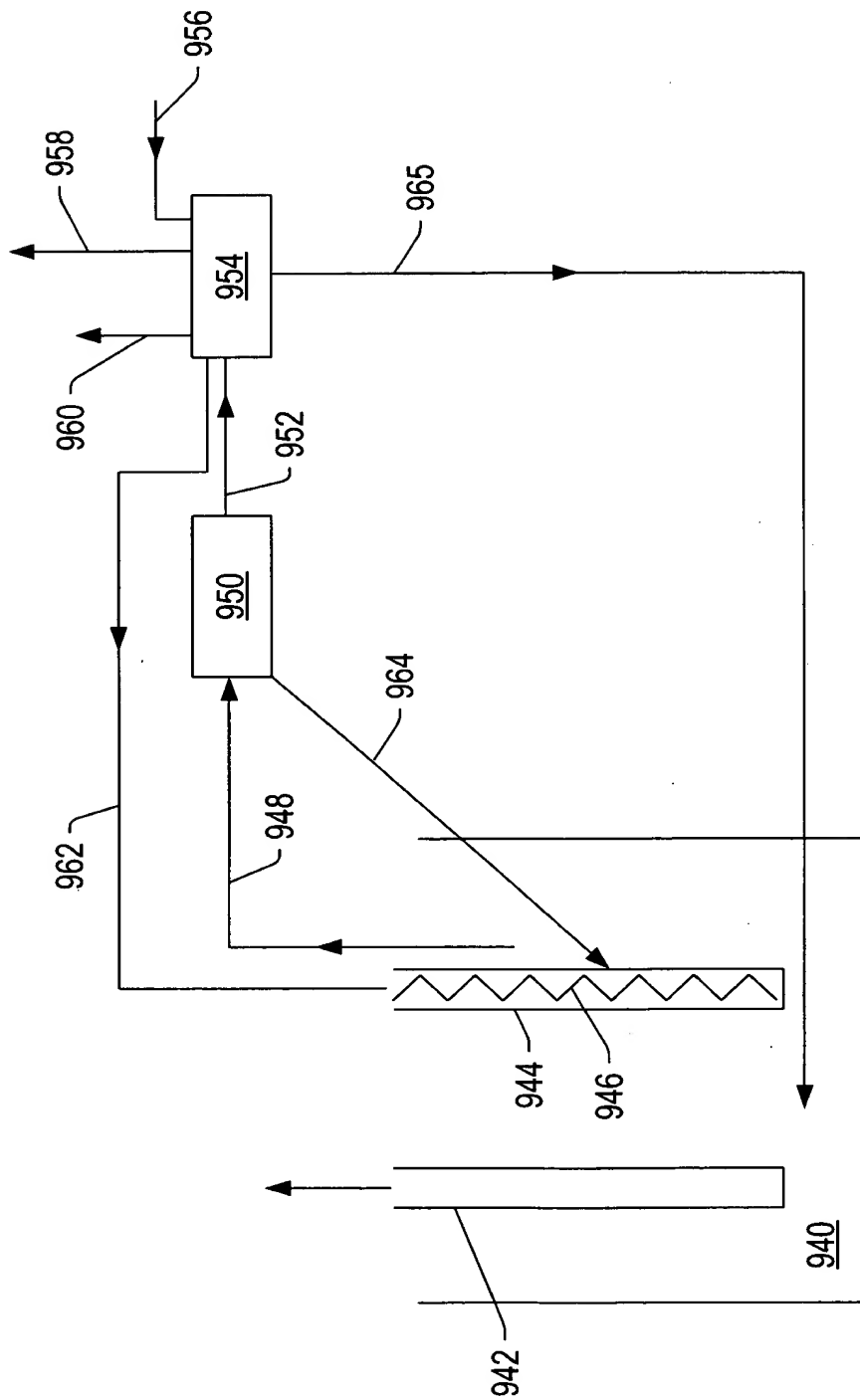


FIG. 34

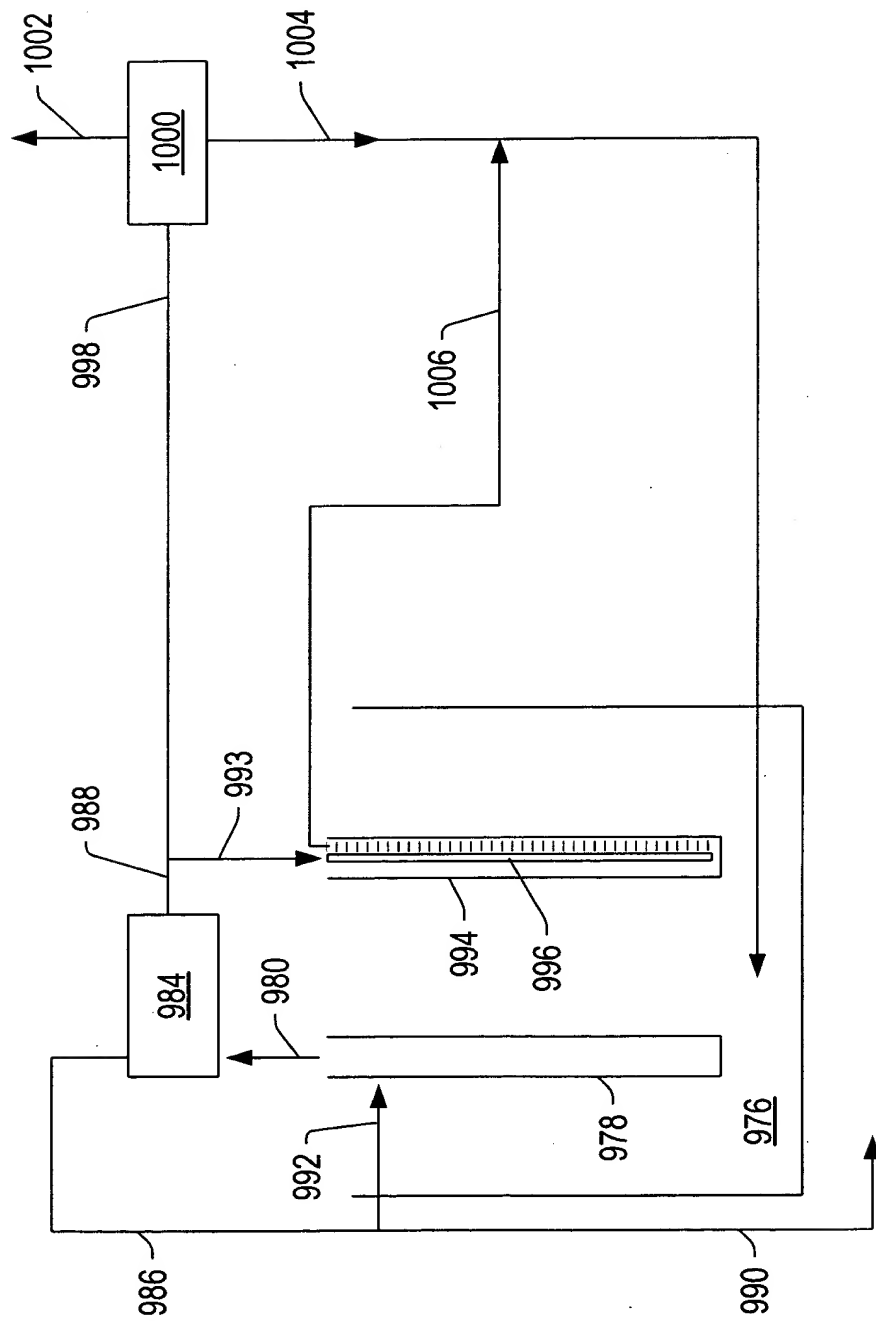


FIG. 35

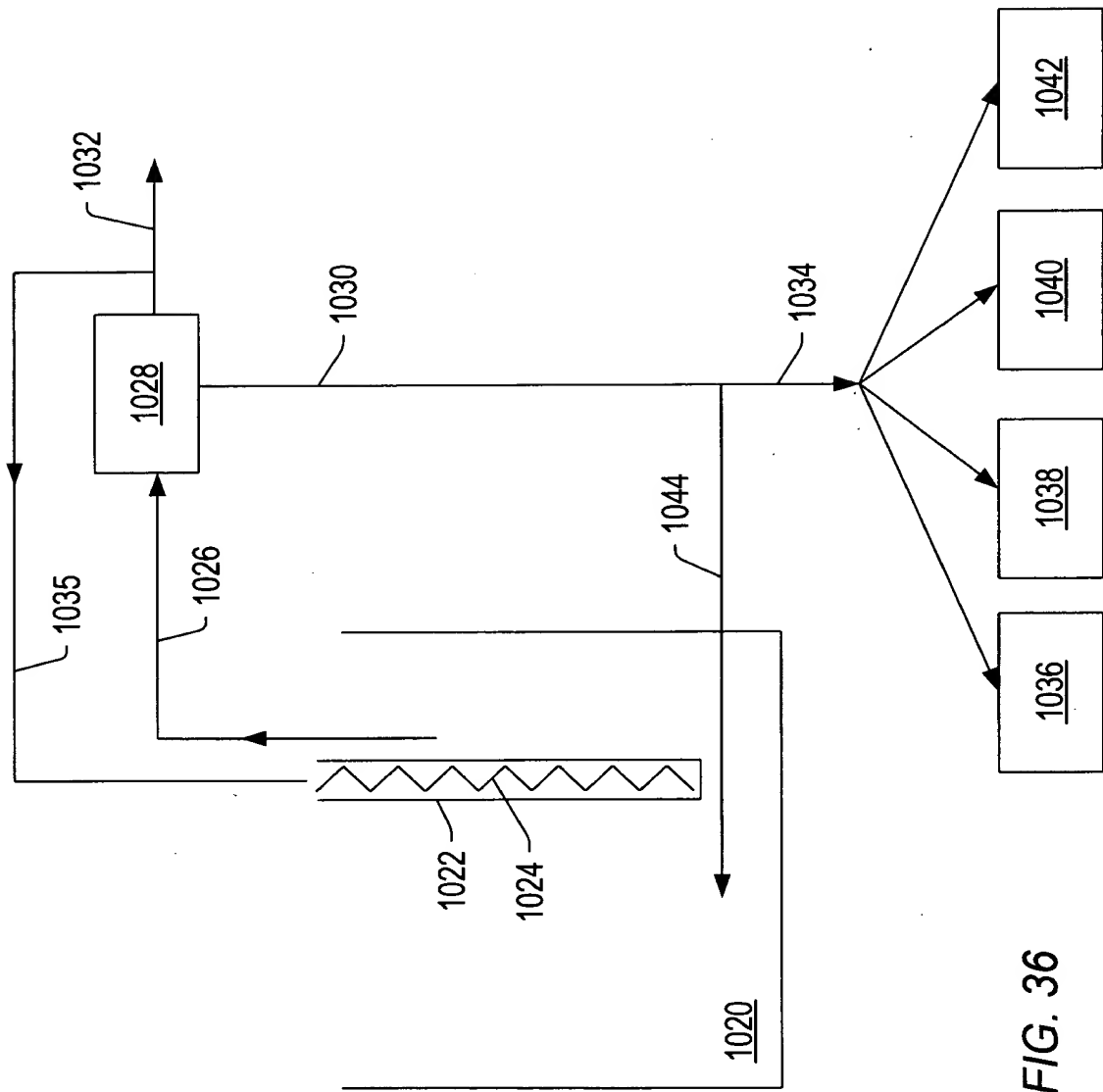


FIG. 36

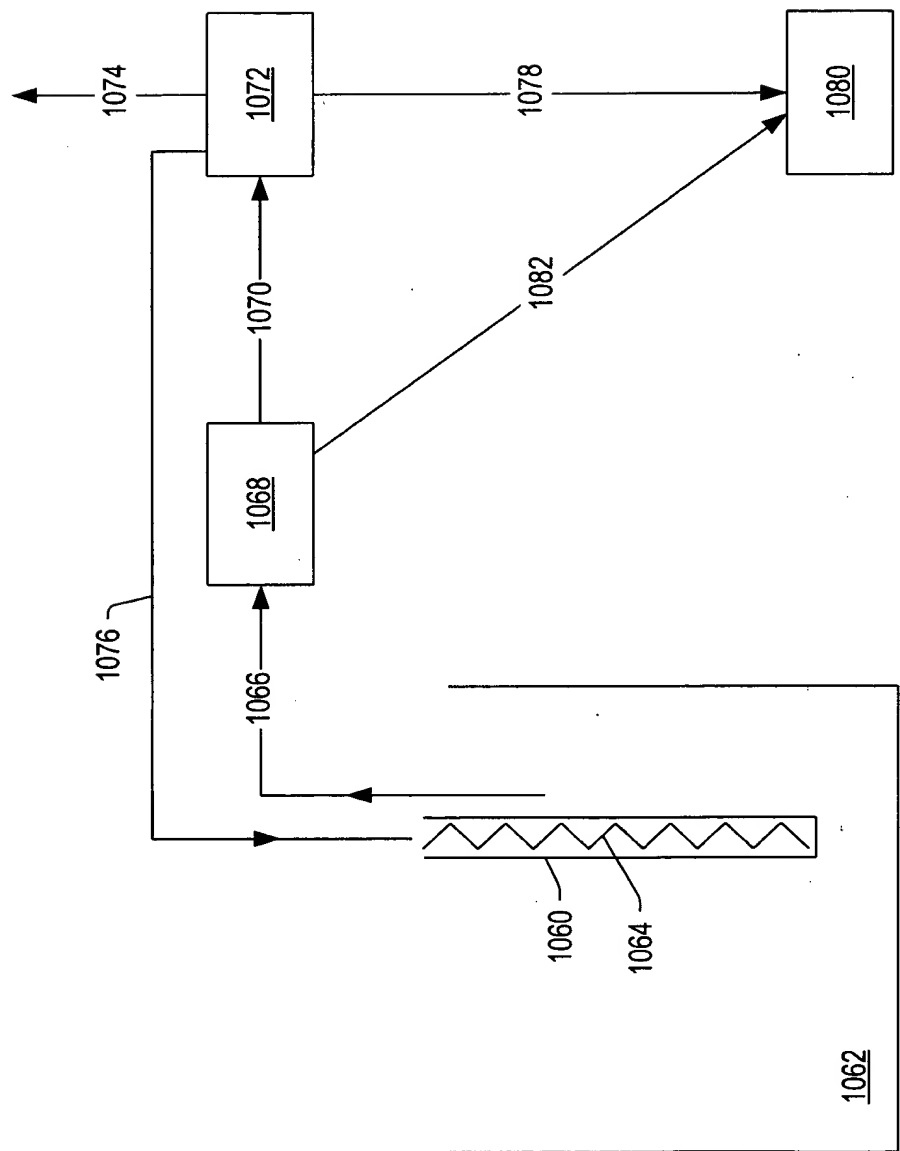


FIG. 37

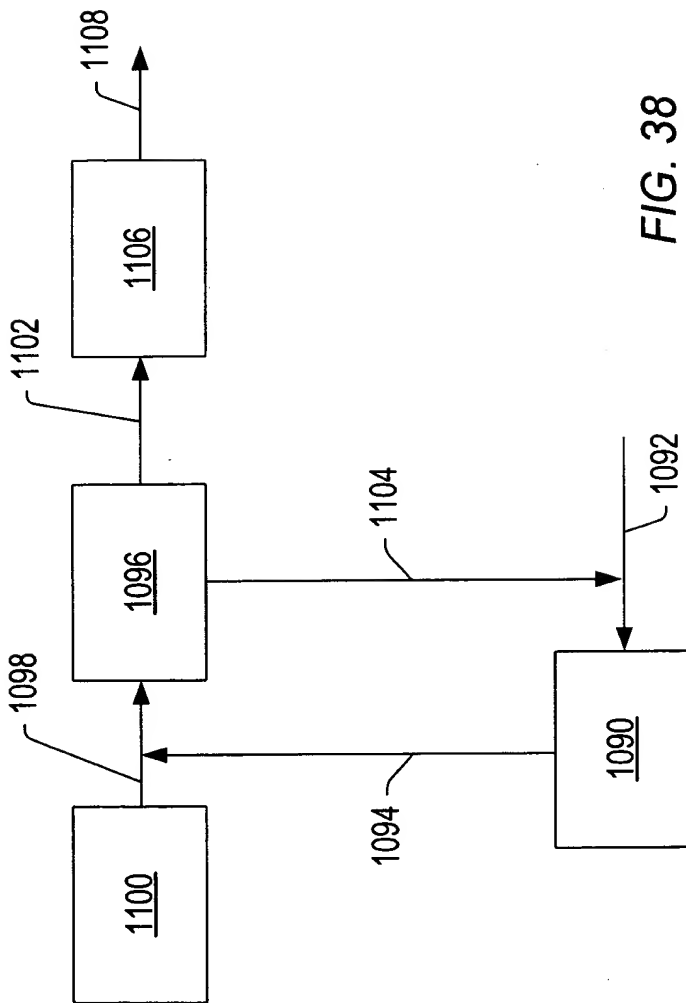


FIG. 38

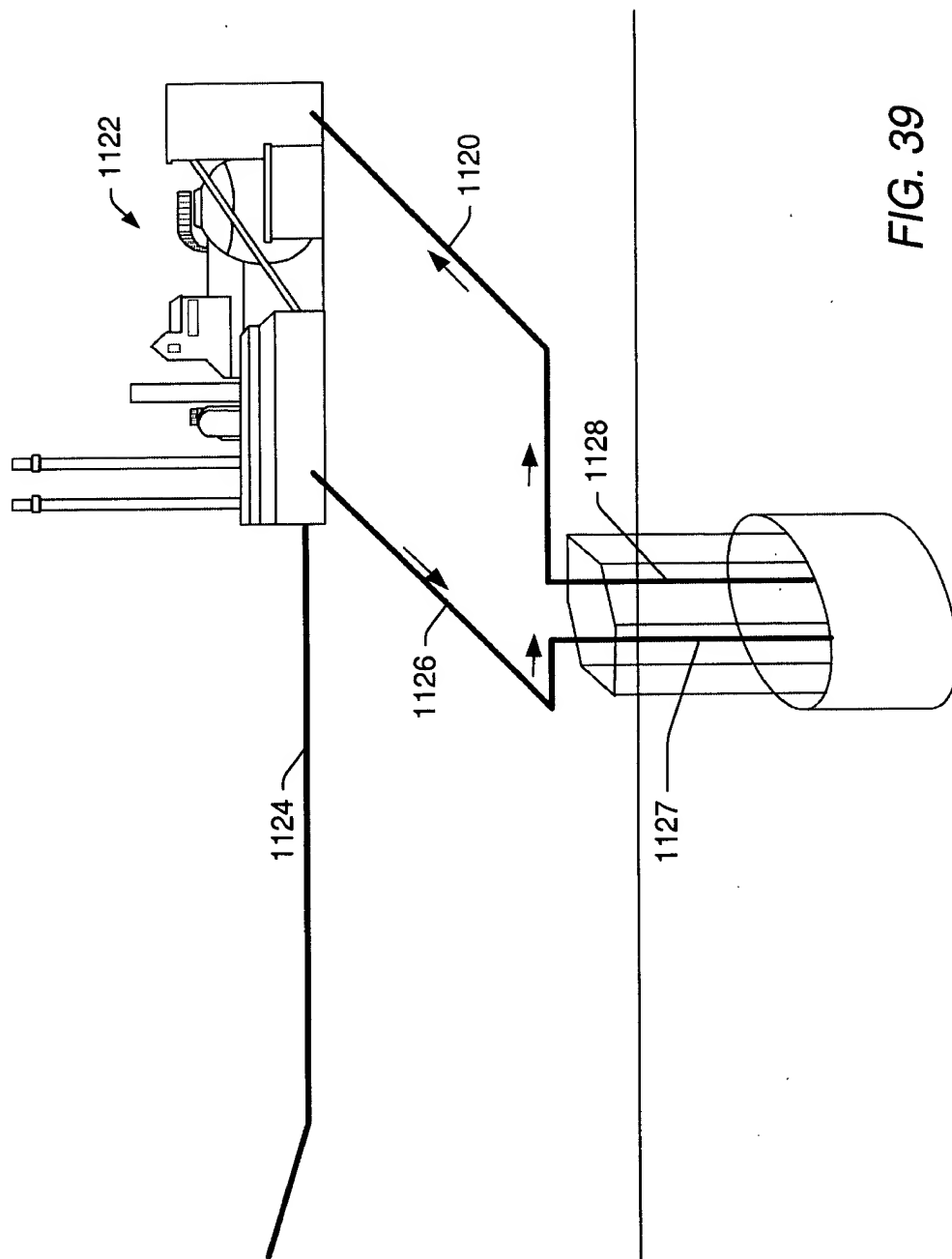


FIG. 39

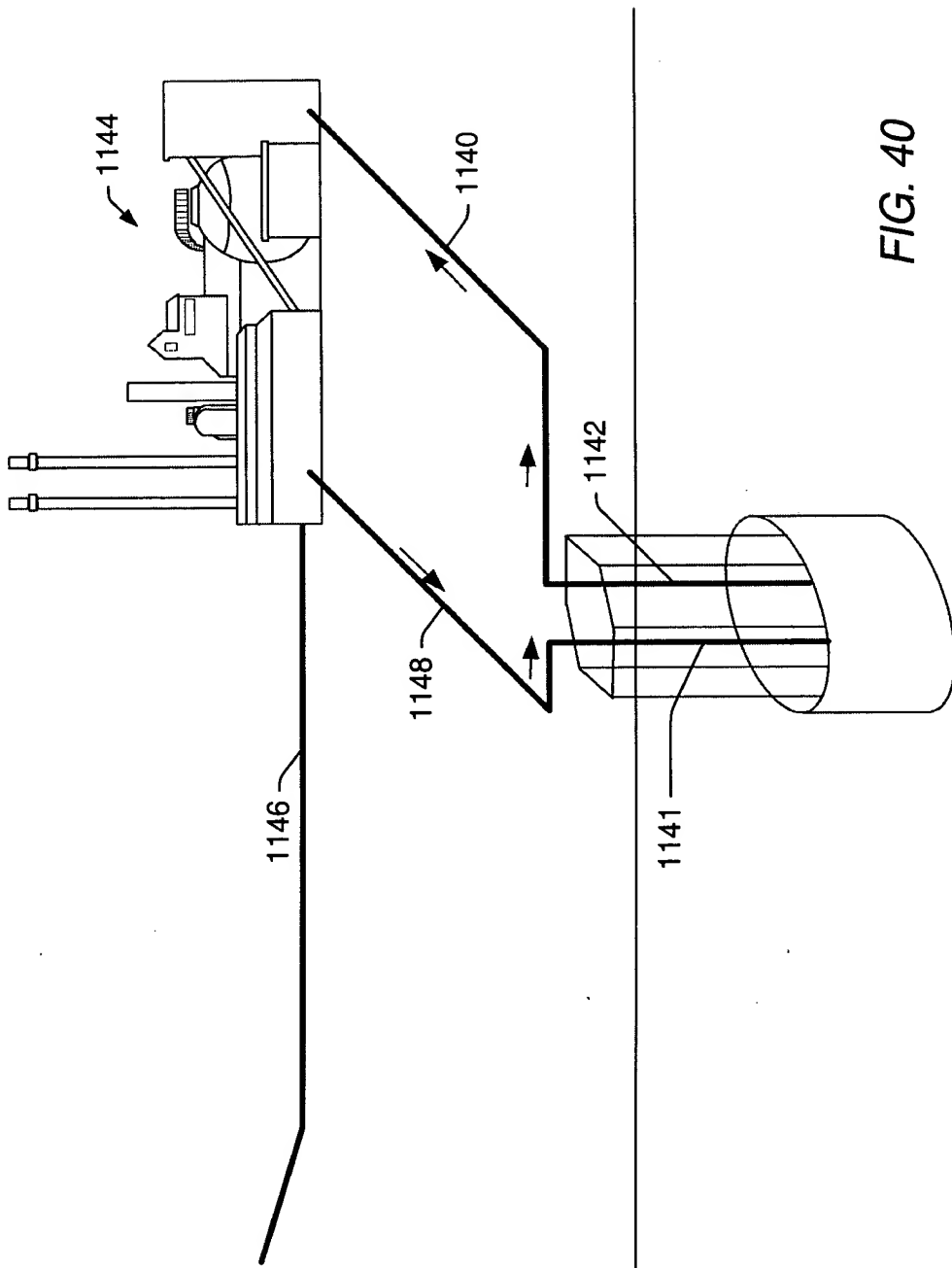


FIG. 40

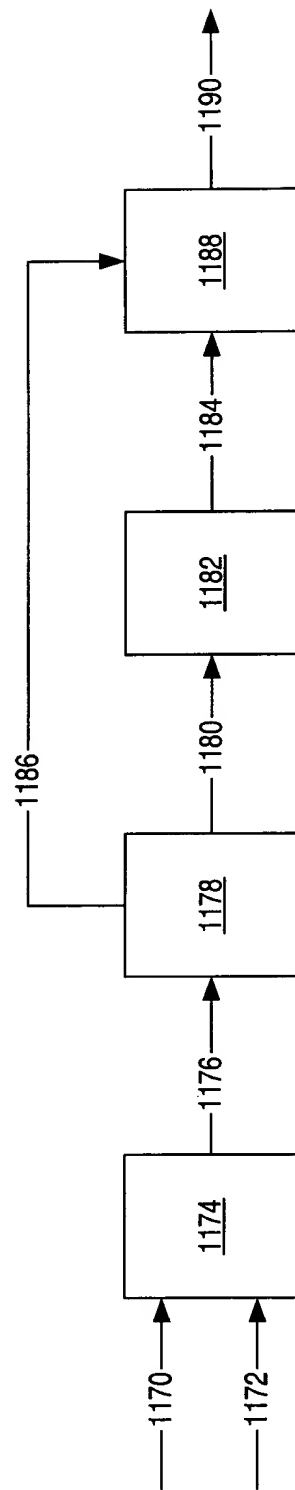


FIG. 41

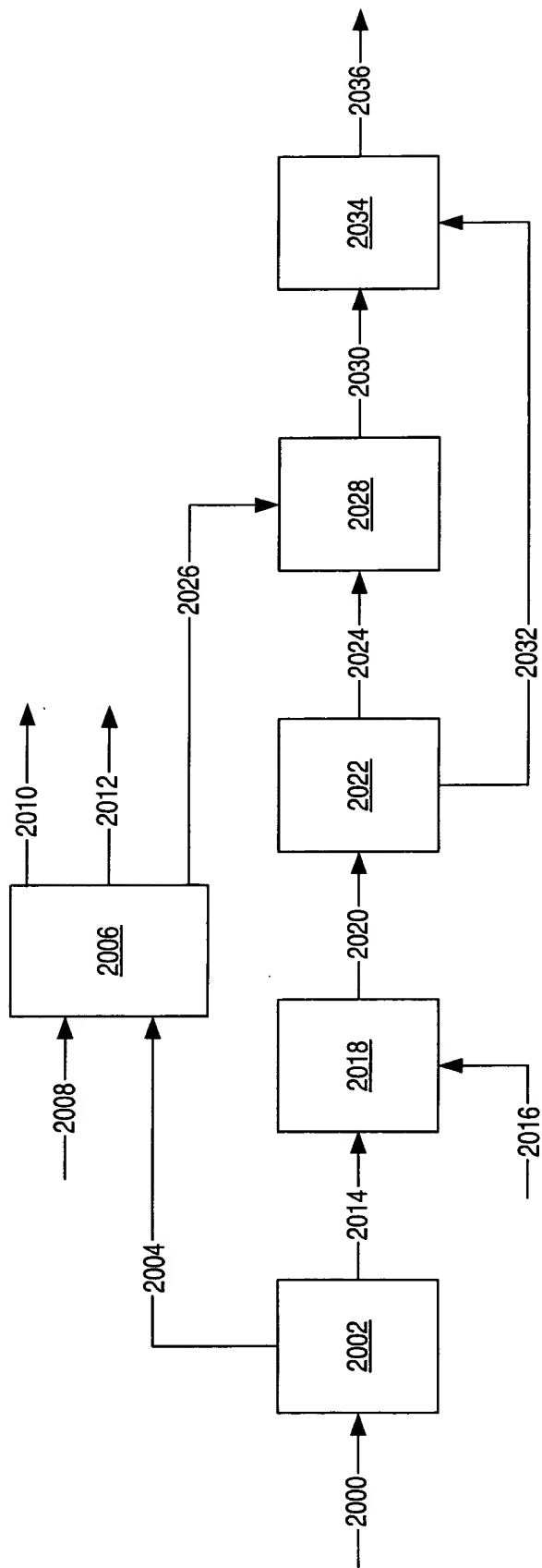


FIG. 42

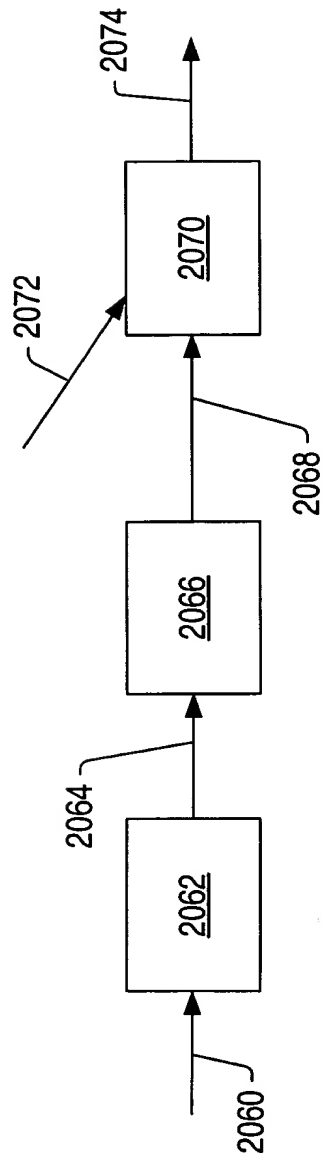


FIG. 43

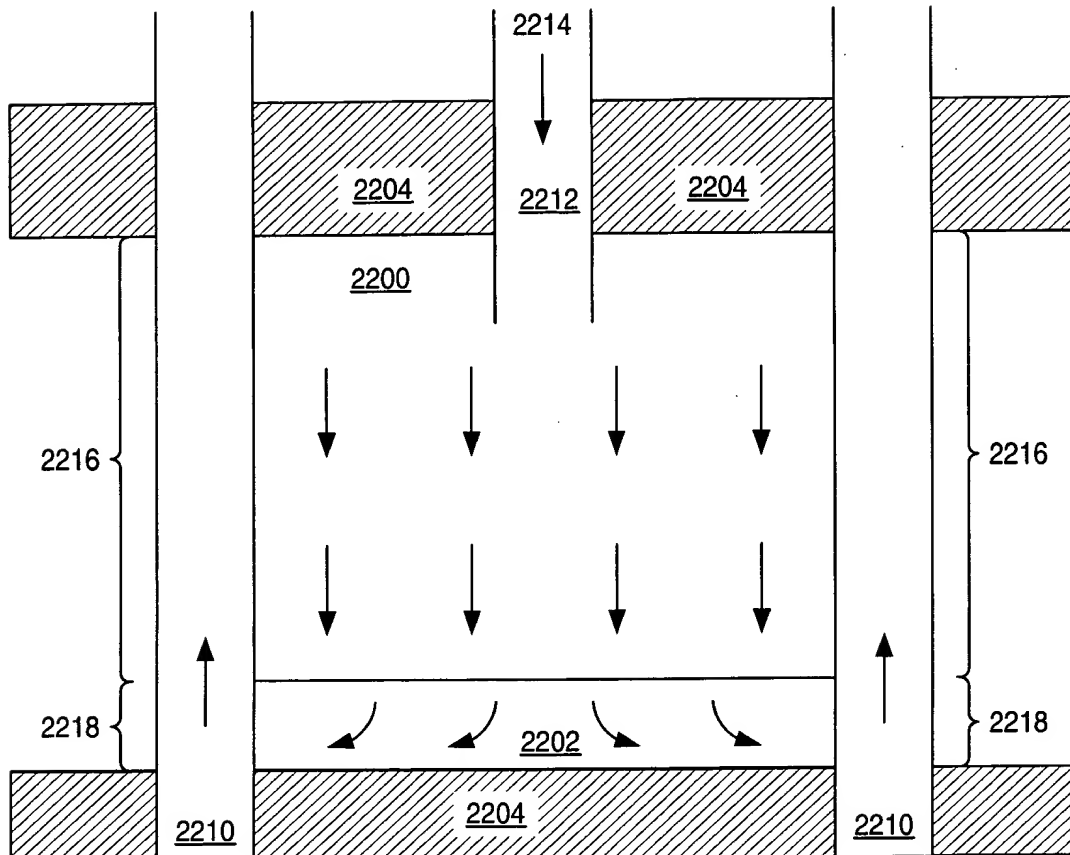


FIG. 44

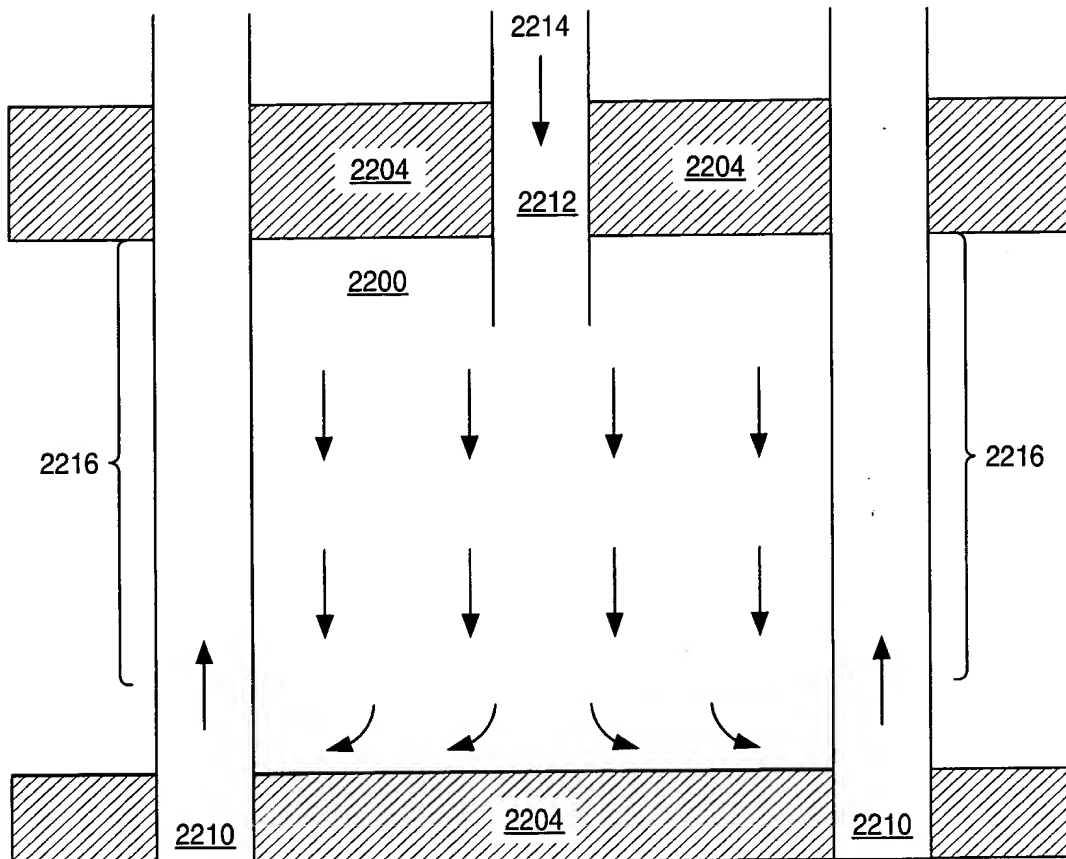


FIG. 45

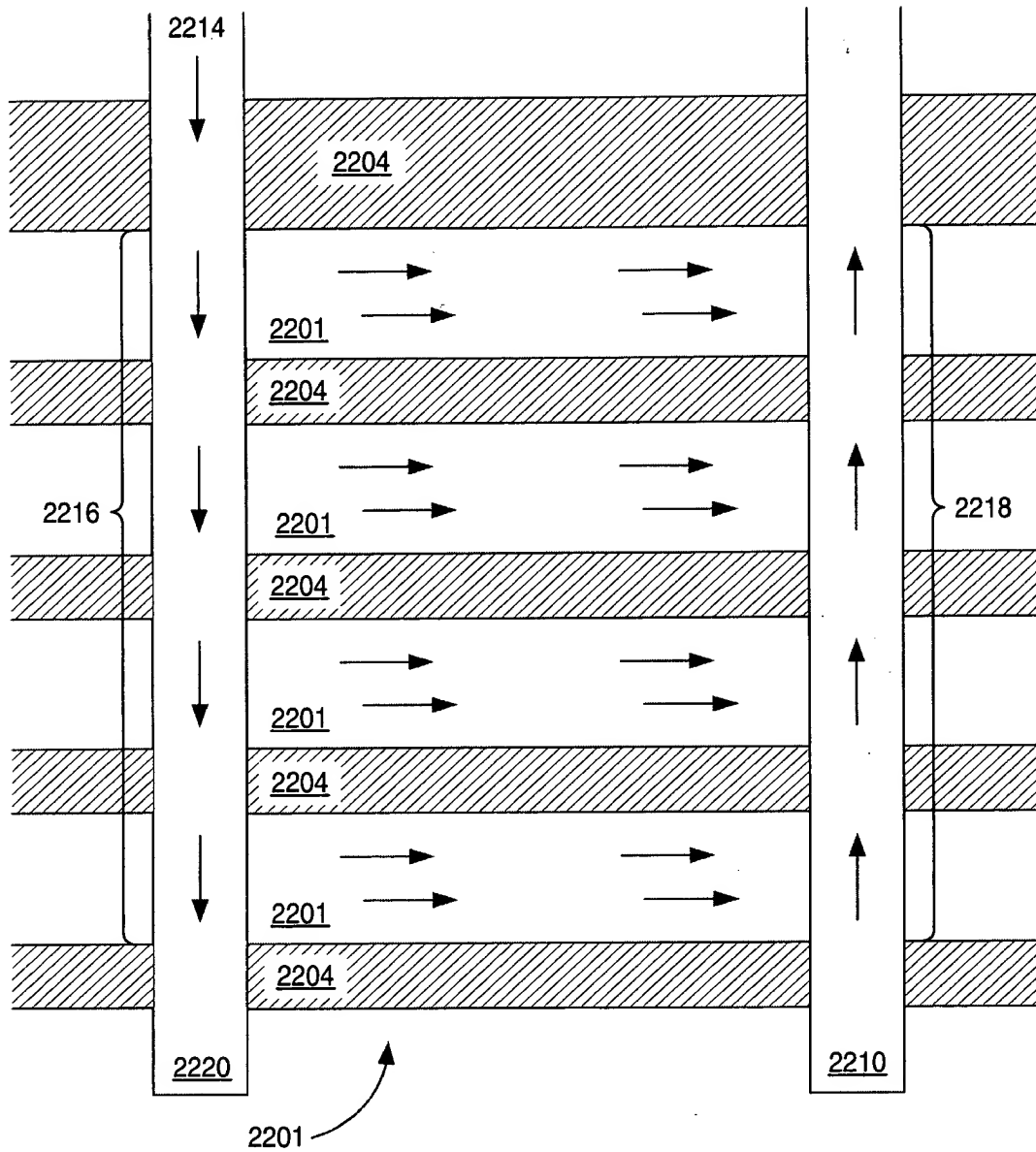


FIG. 46

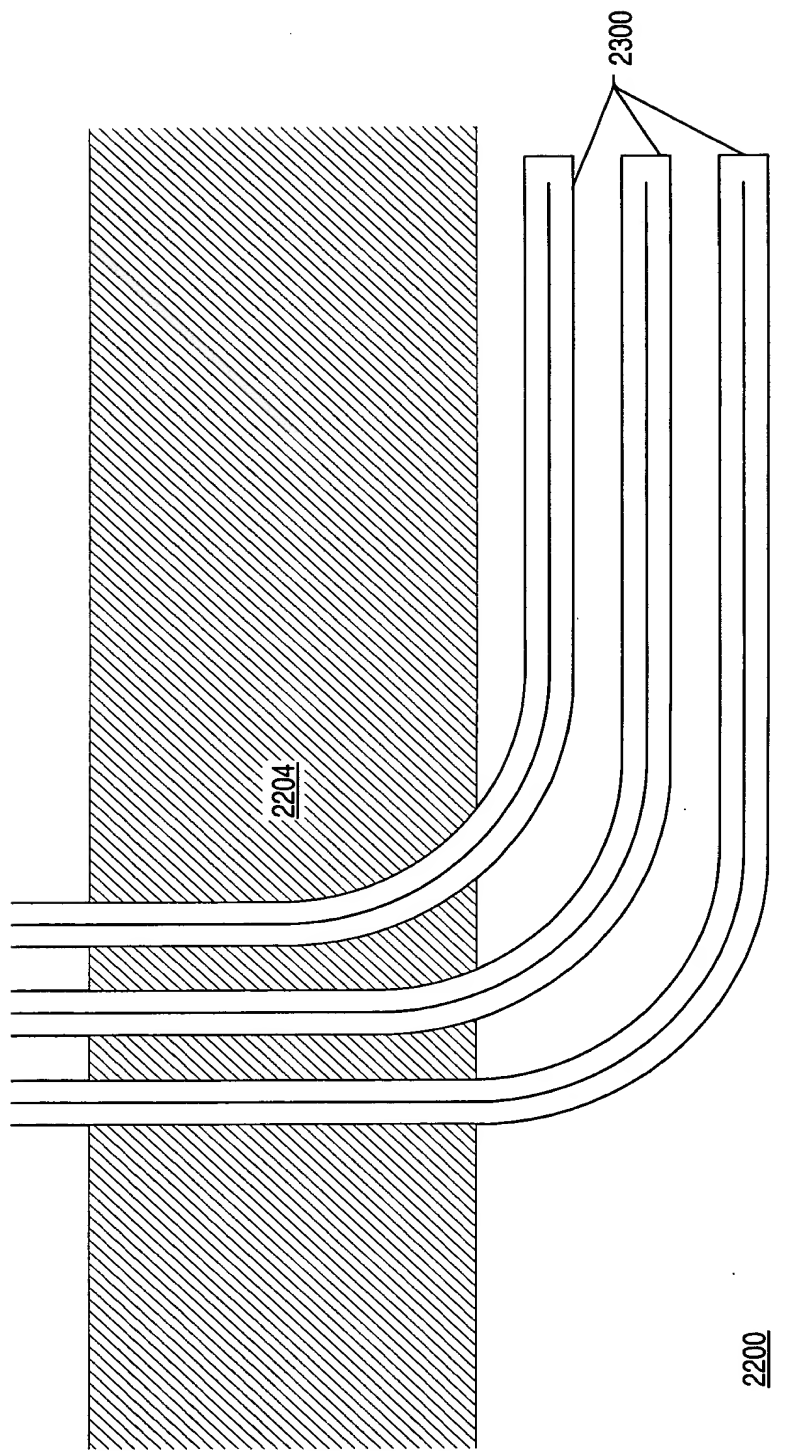


FIG. 47

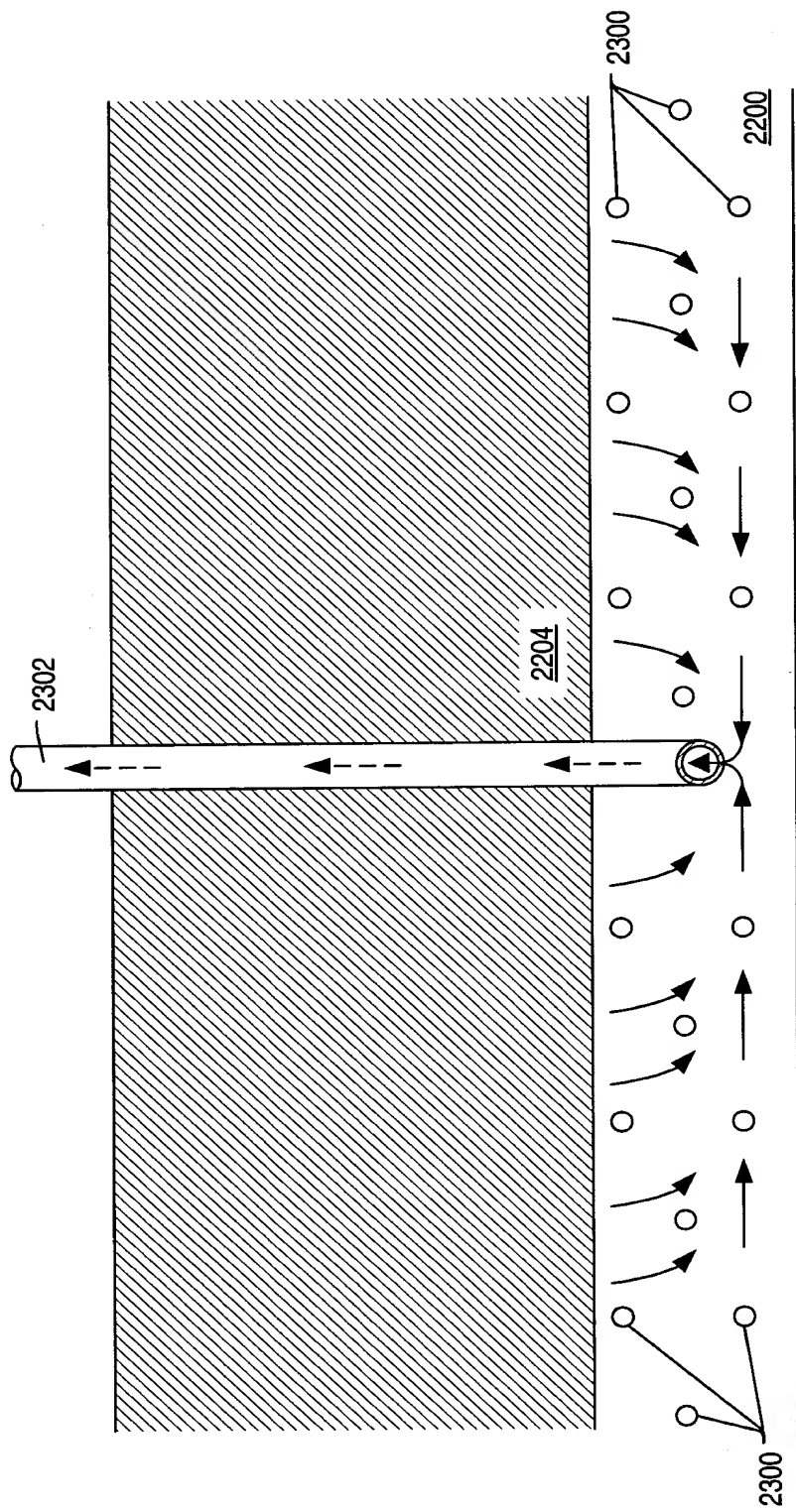


FIG. 48

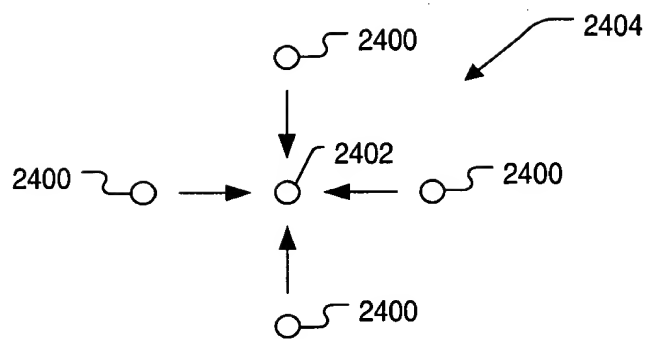


FIG. 49

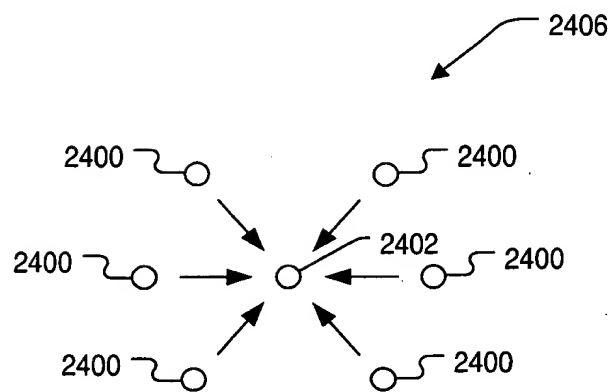


FIG. 50

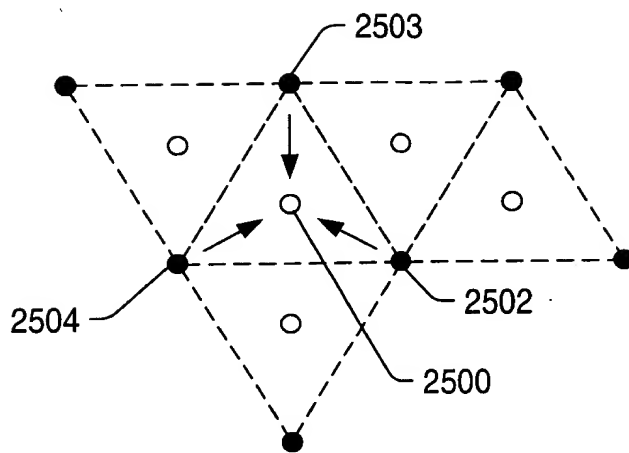


FIG. 51

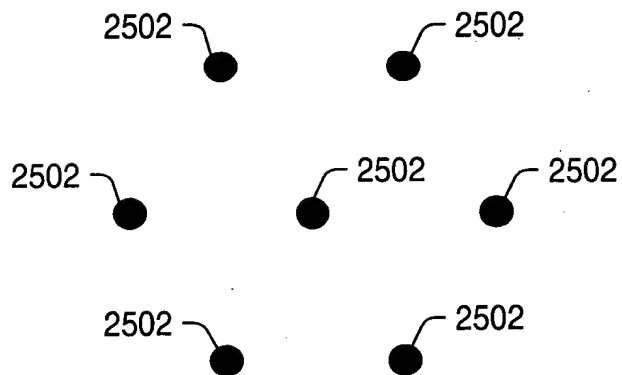


FIG. 52

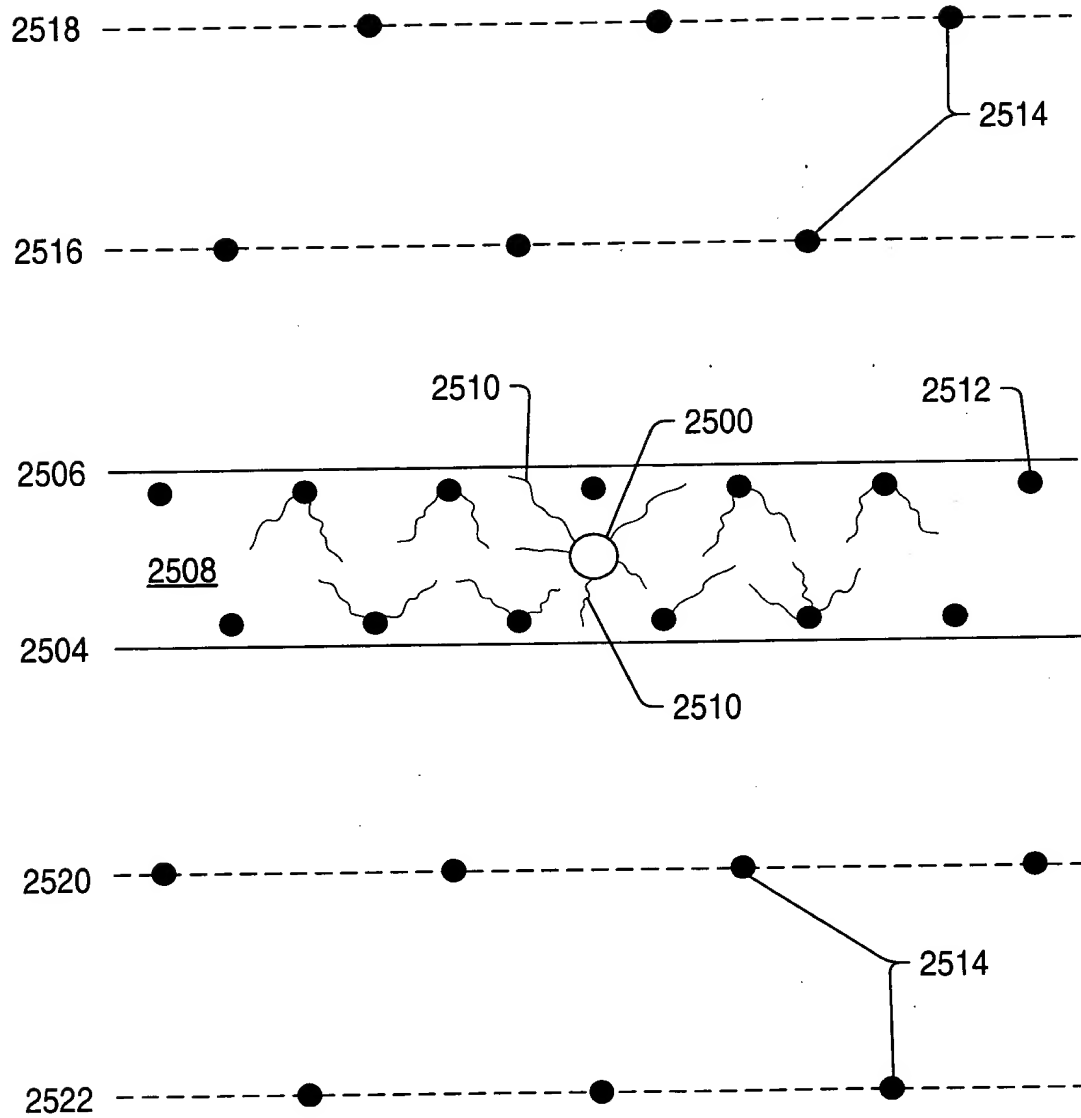


FIG. 53

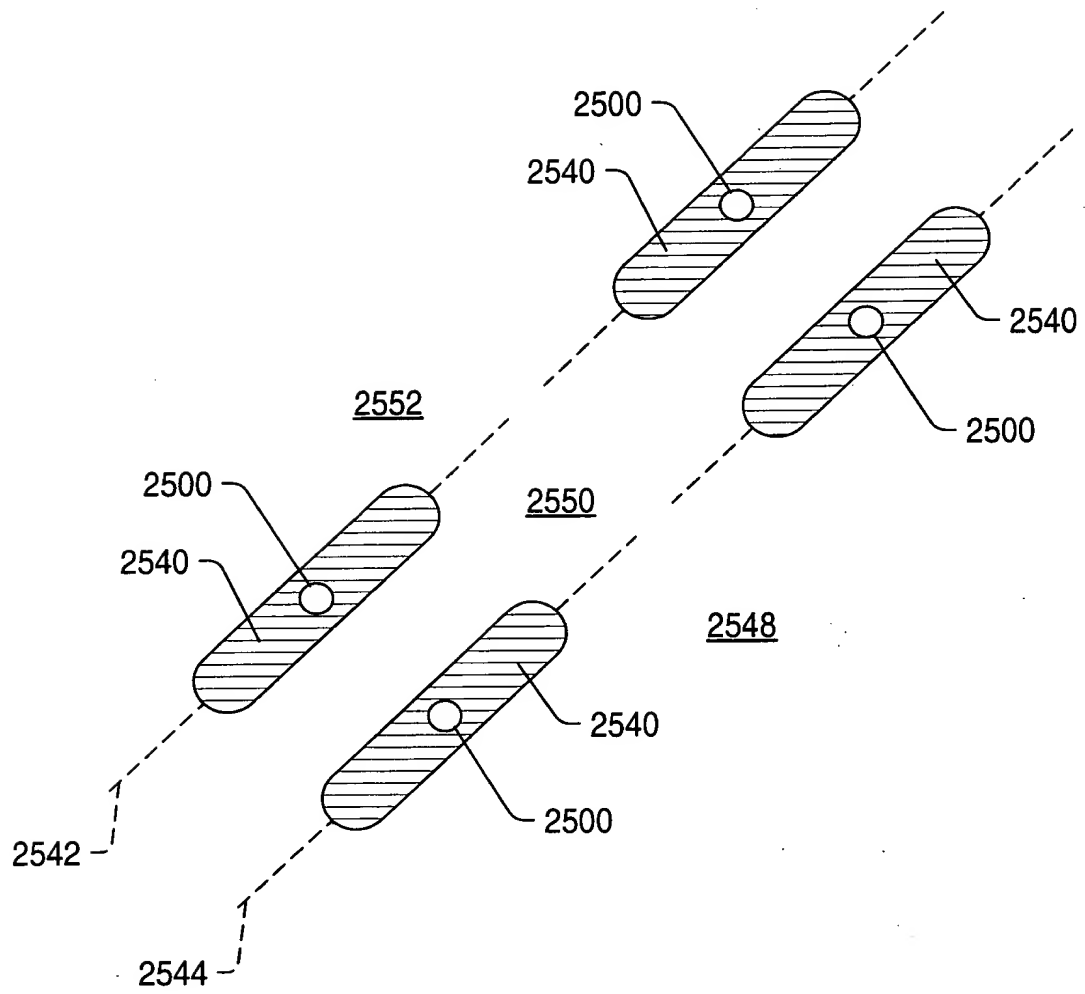


FIG. 54

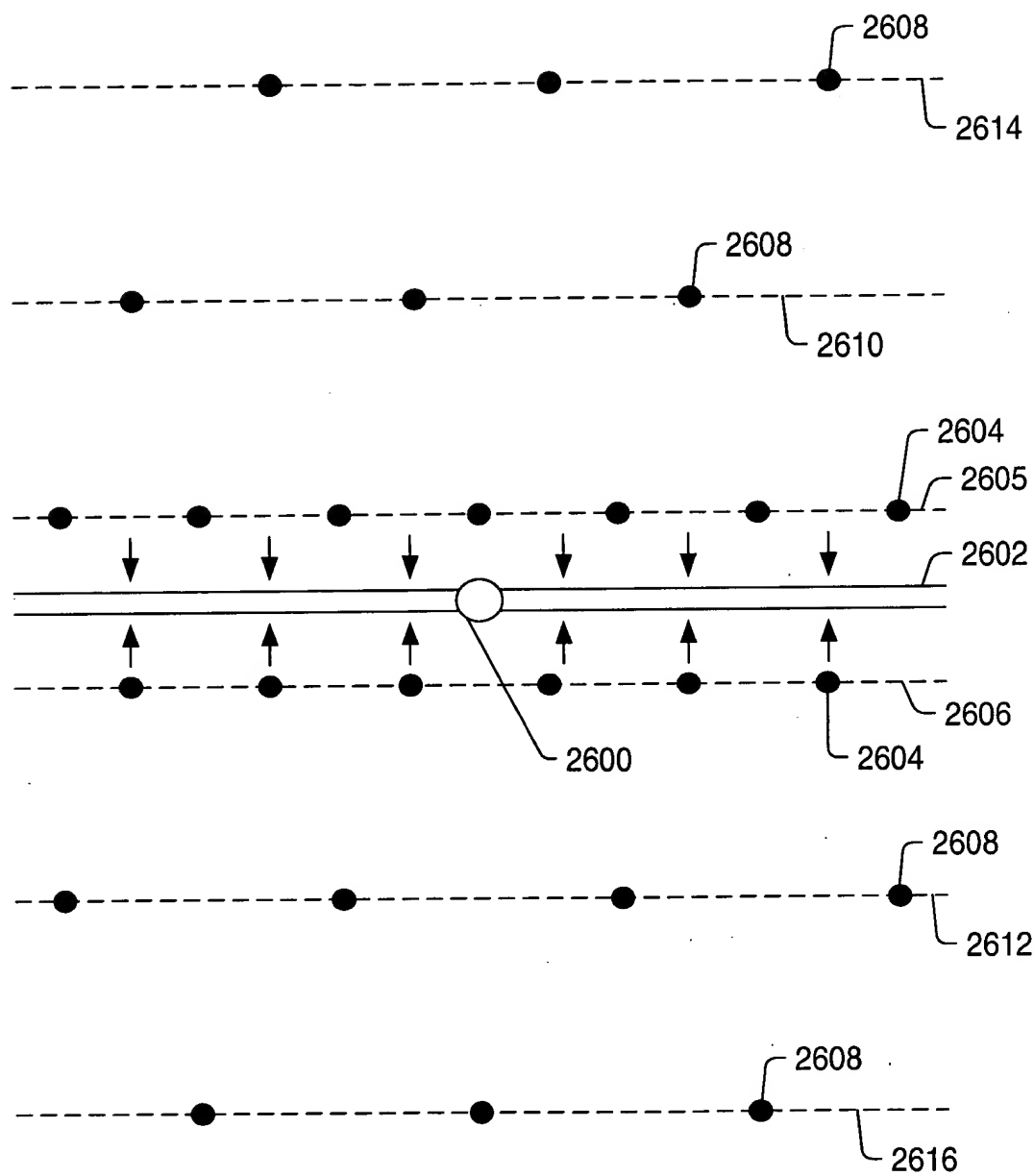


FIG. 55

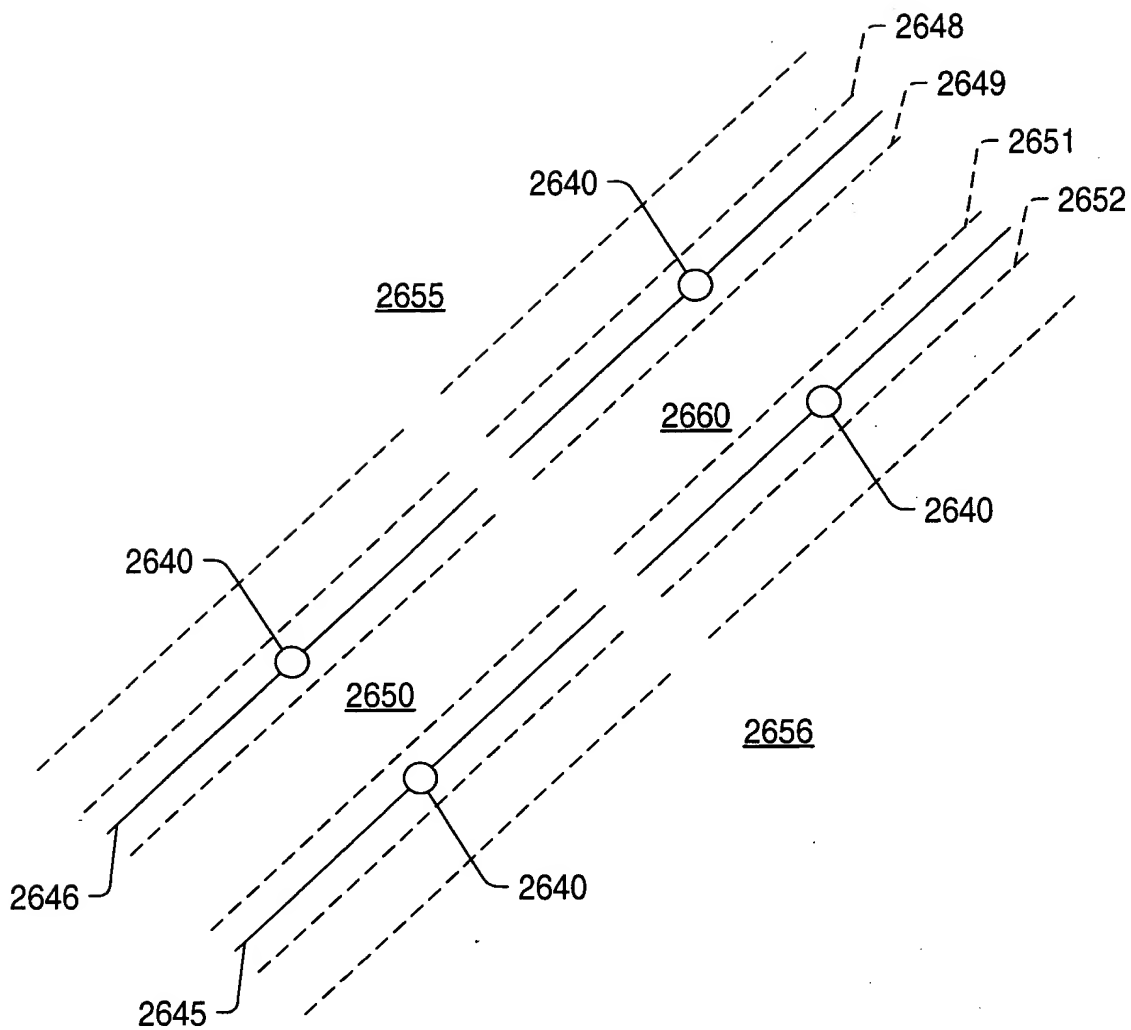


FIG. 56

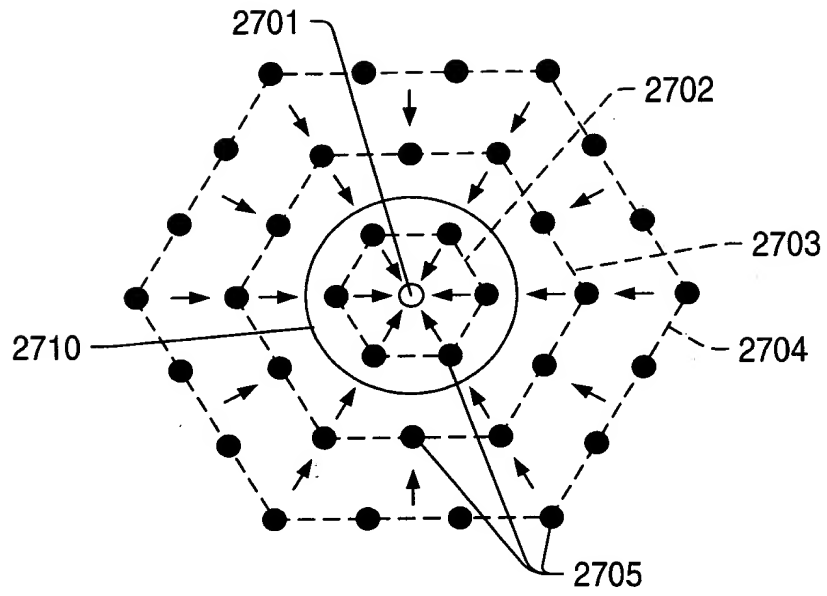


FIG. 57

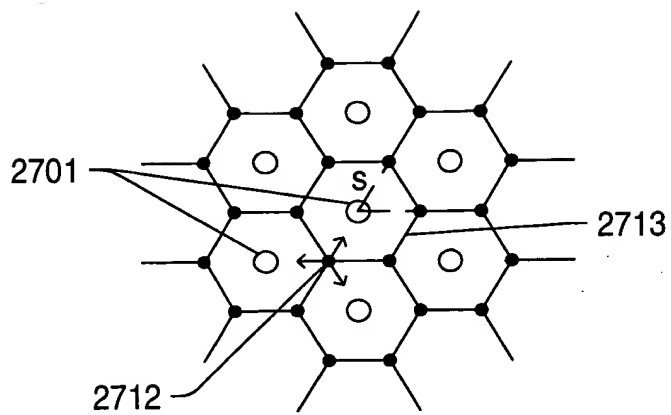


FIG. 58

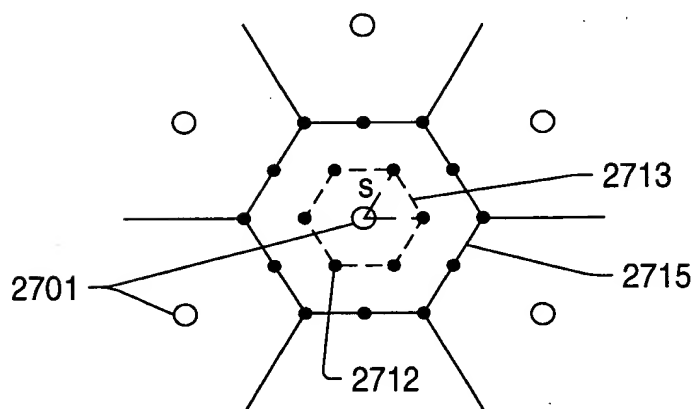


FIG. 59

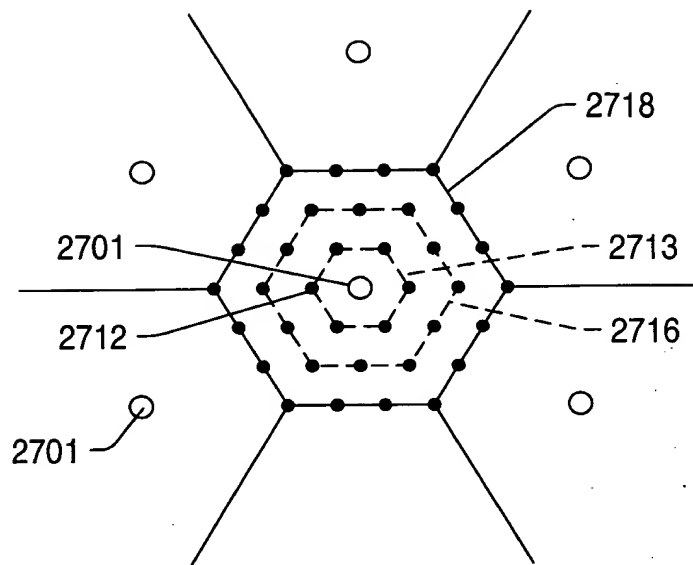


FIG. 60

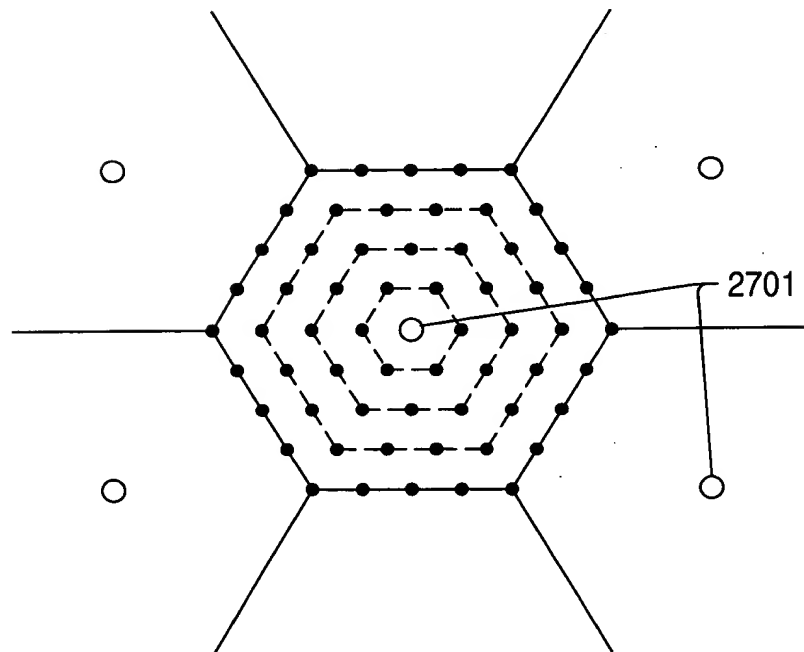


FIG. 61

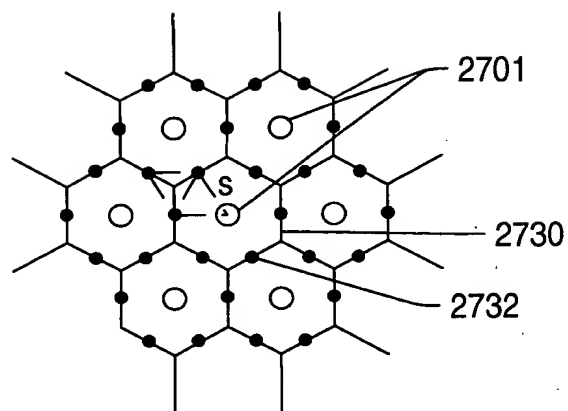


FIG. 62

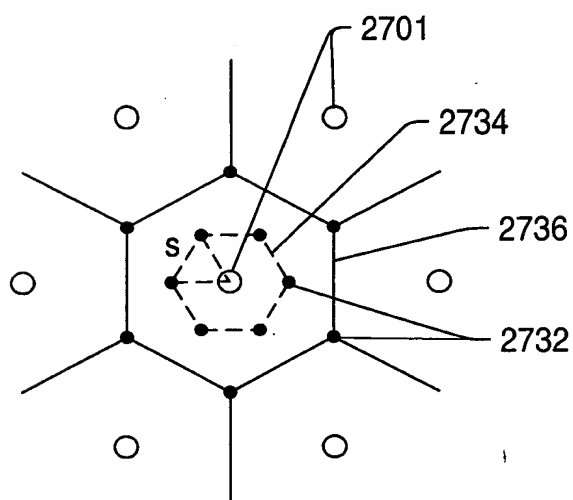


FIG. 63

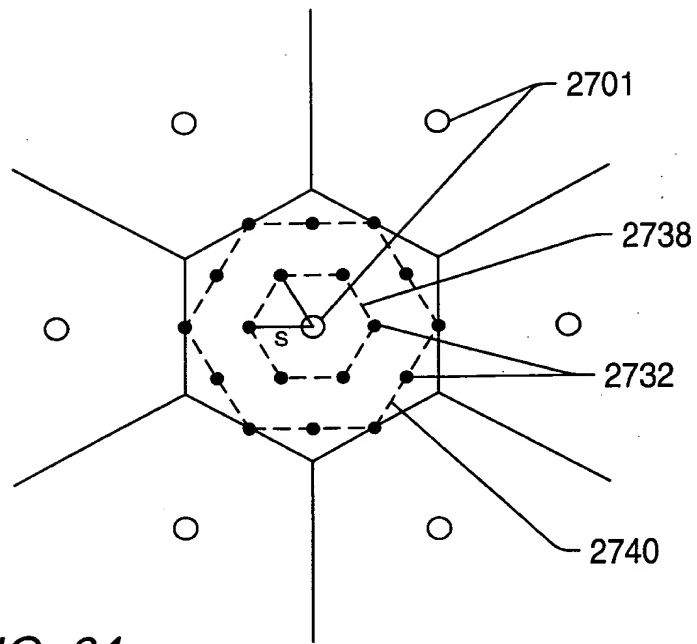


FIG. 64

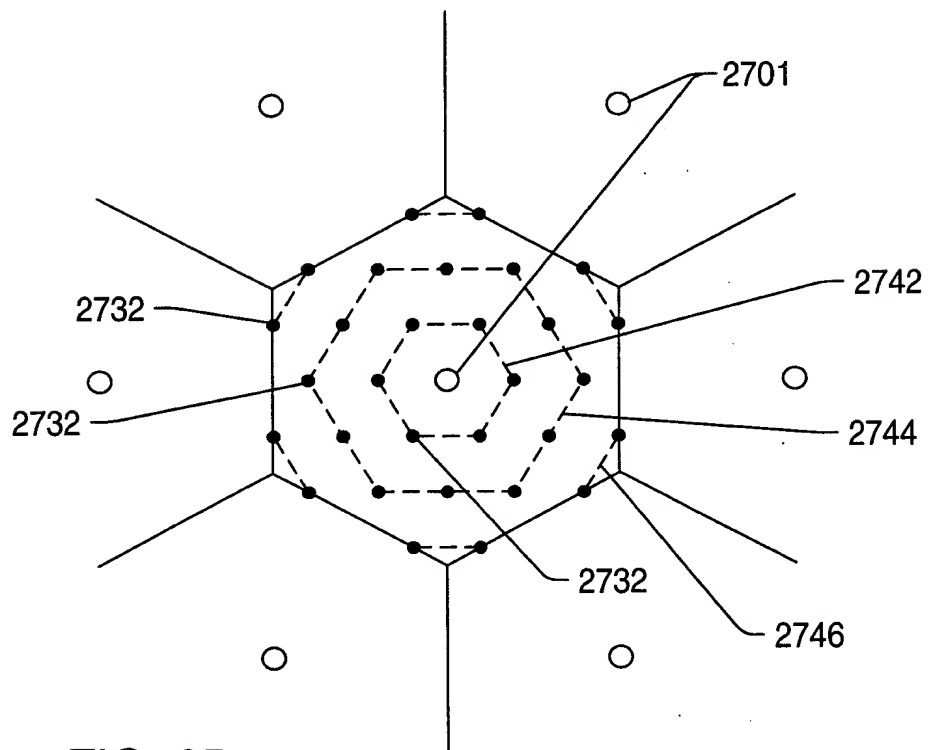


FIG. 65

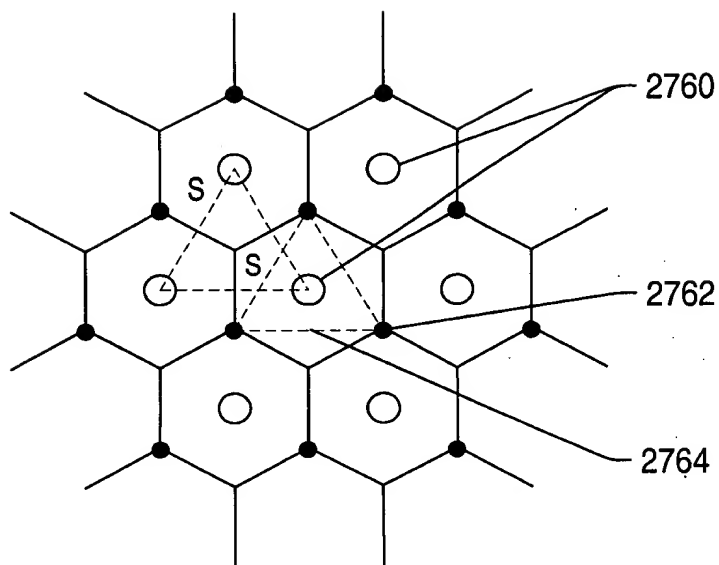


FIG. 66

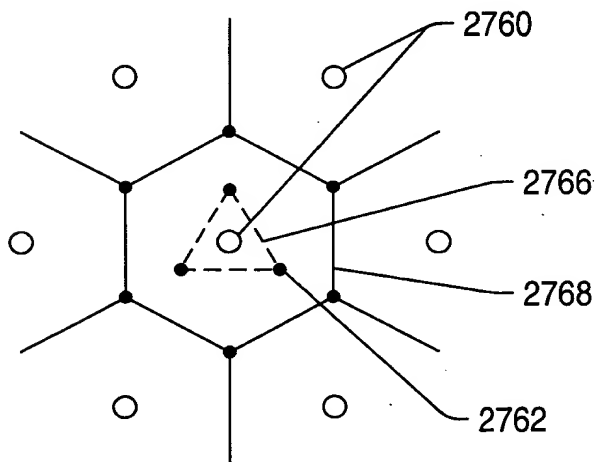


FIG. 67

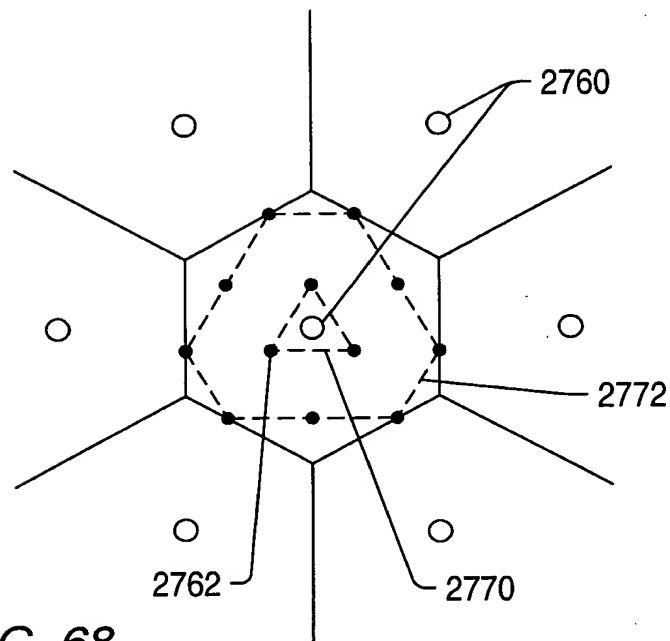


FIG. 68

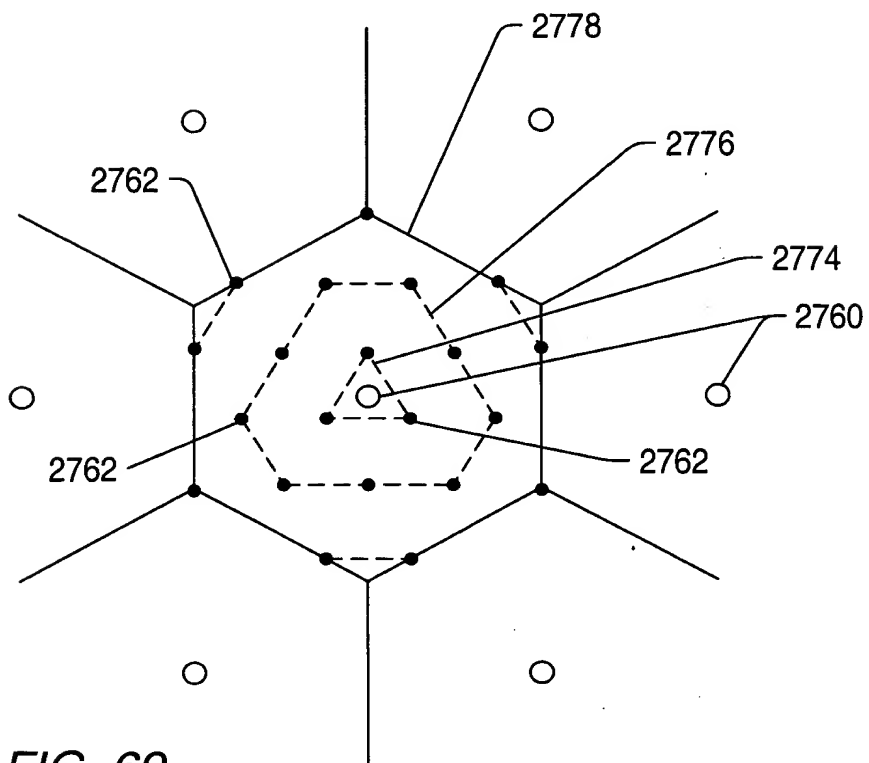


FIG. 69

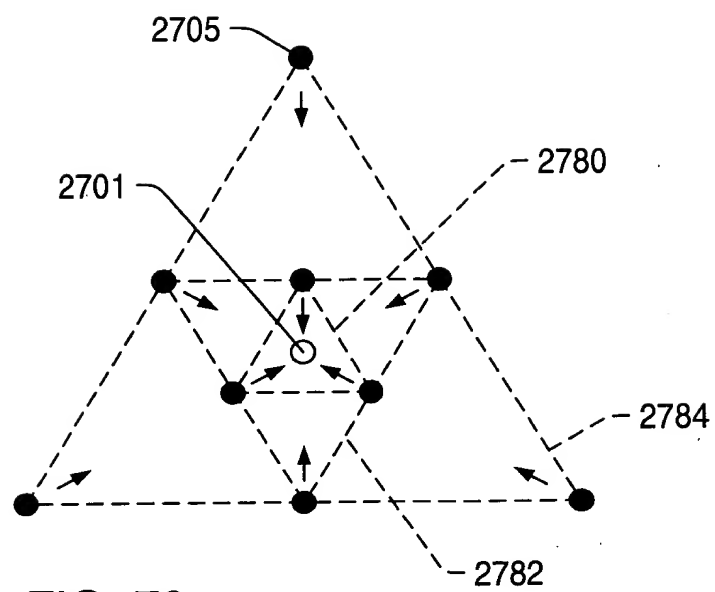


FIG. 70

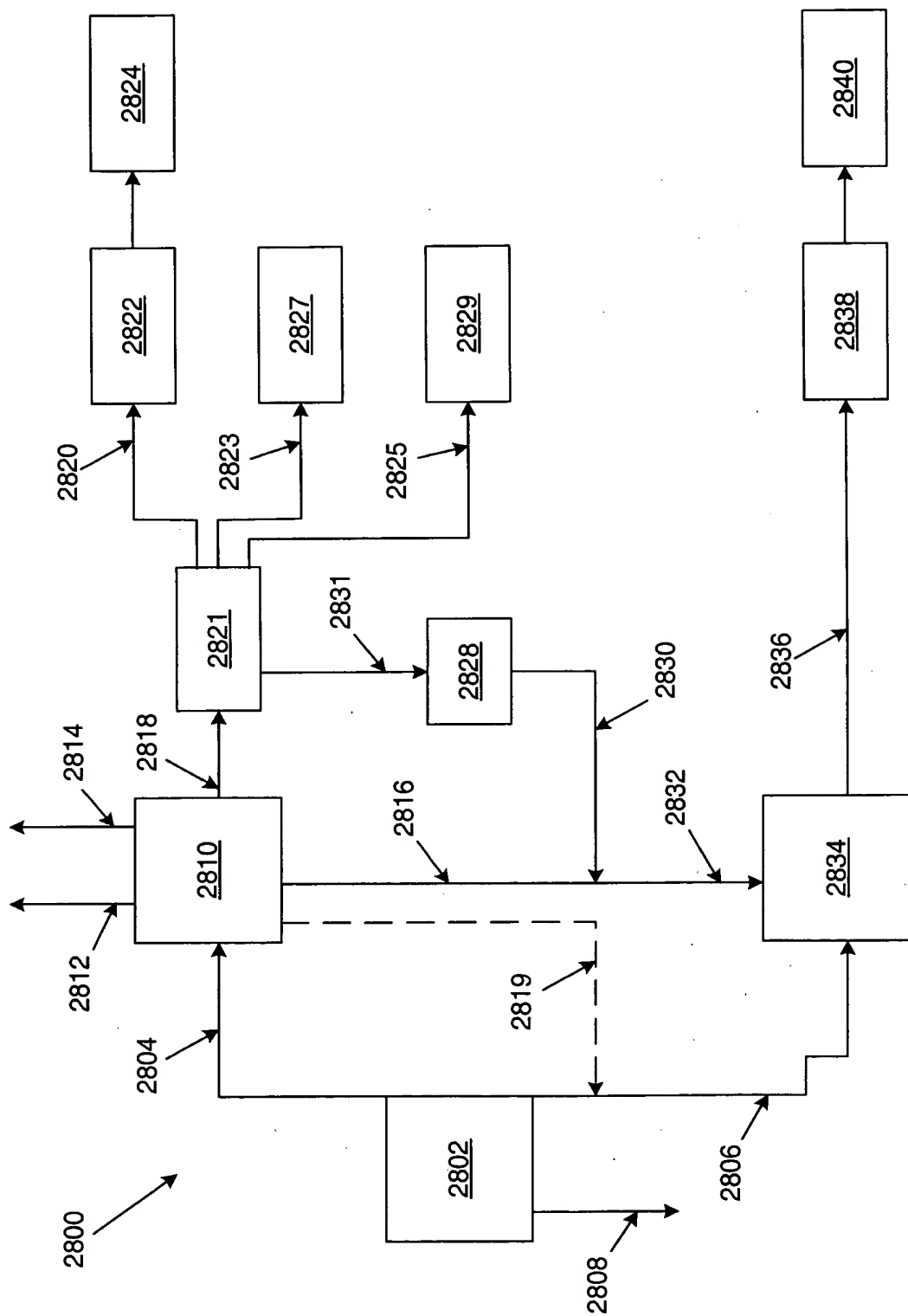


Fig. 71

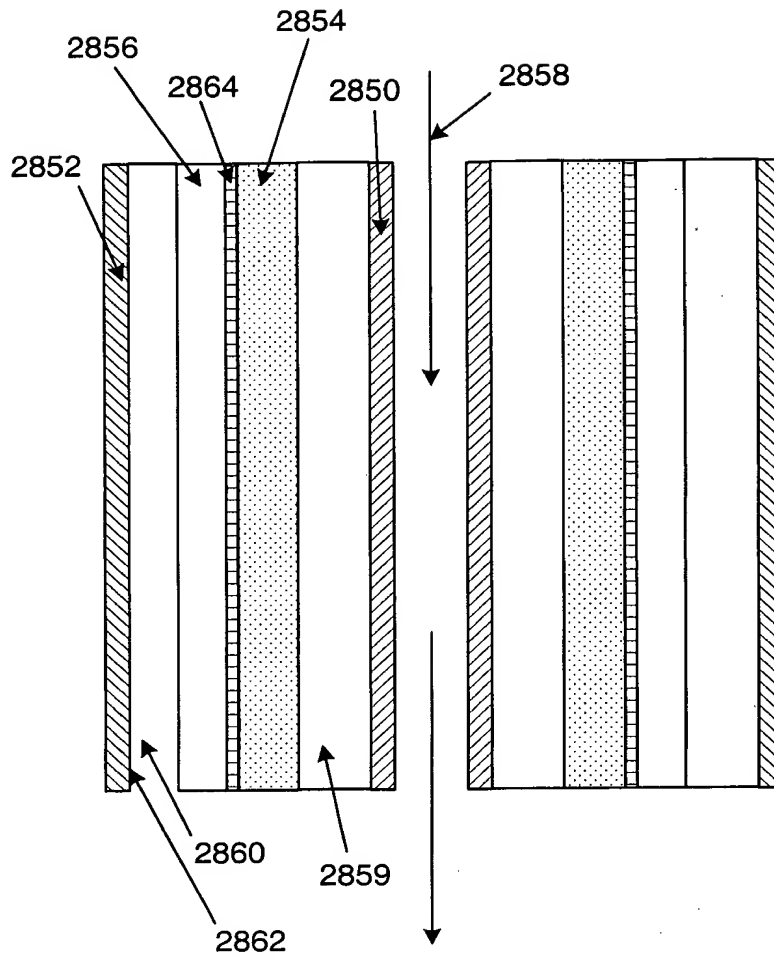


Fig. 72

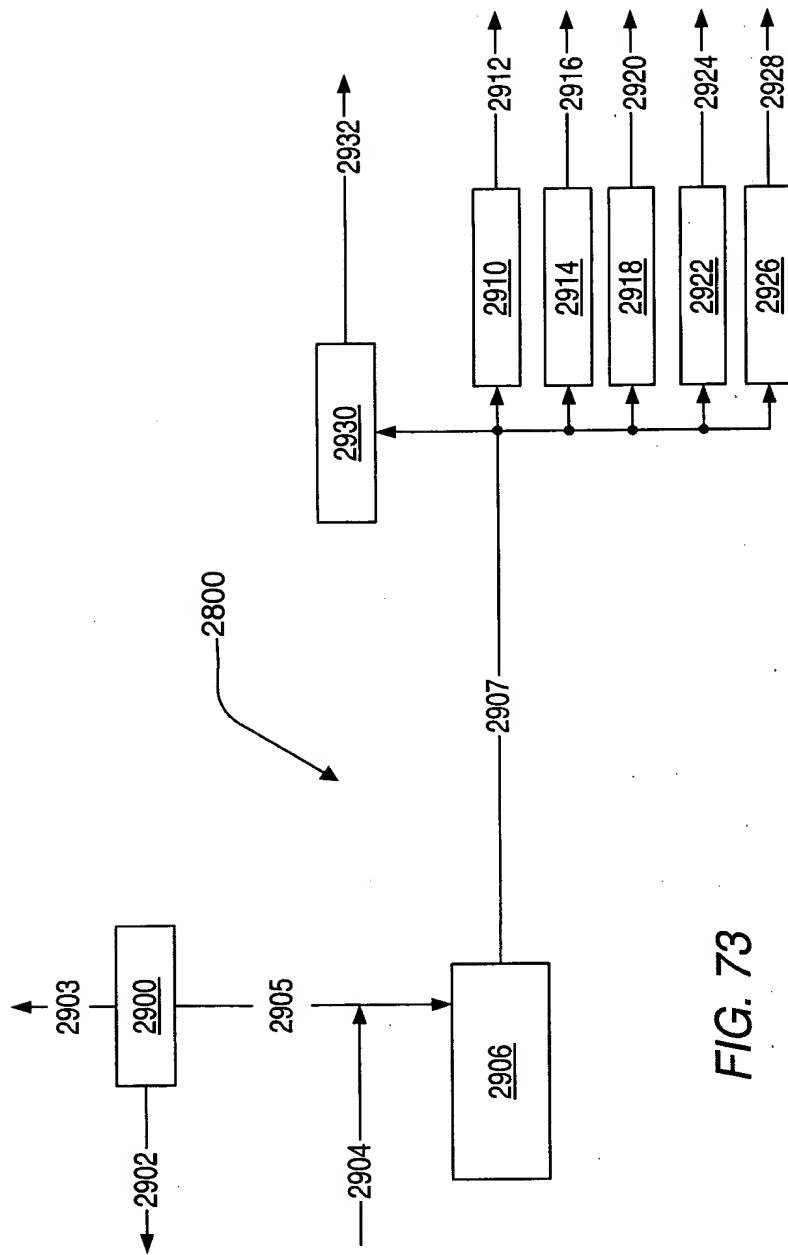


FIG. 73

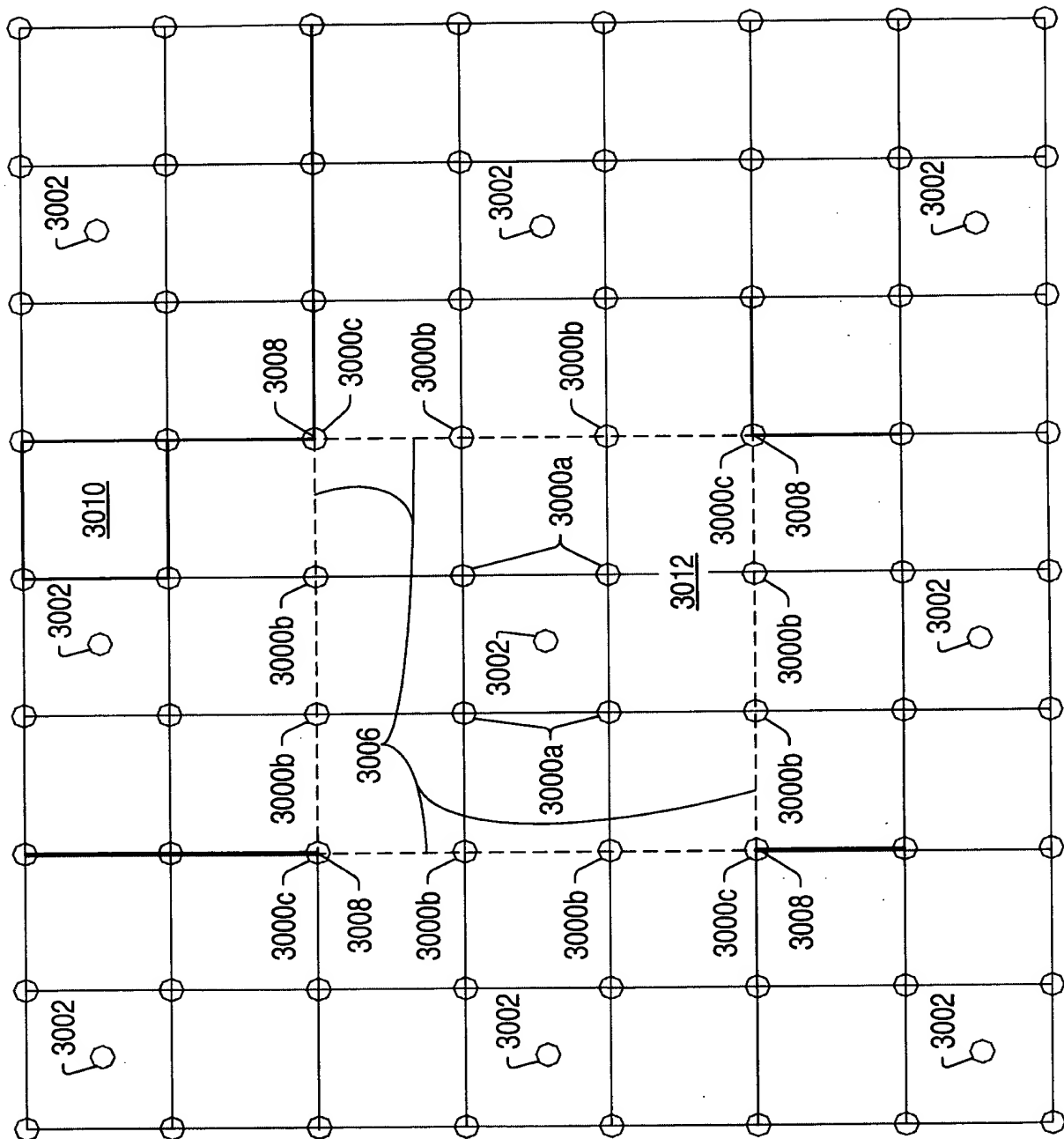


FIG. 74

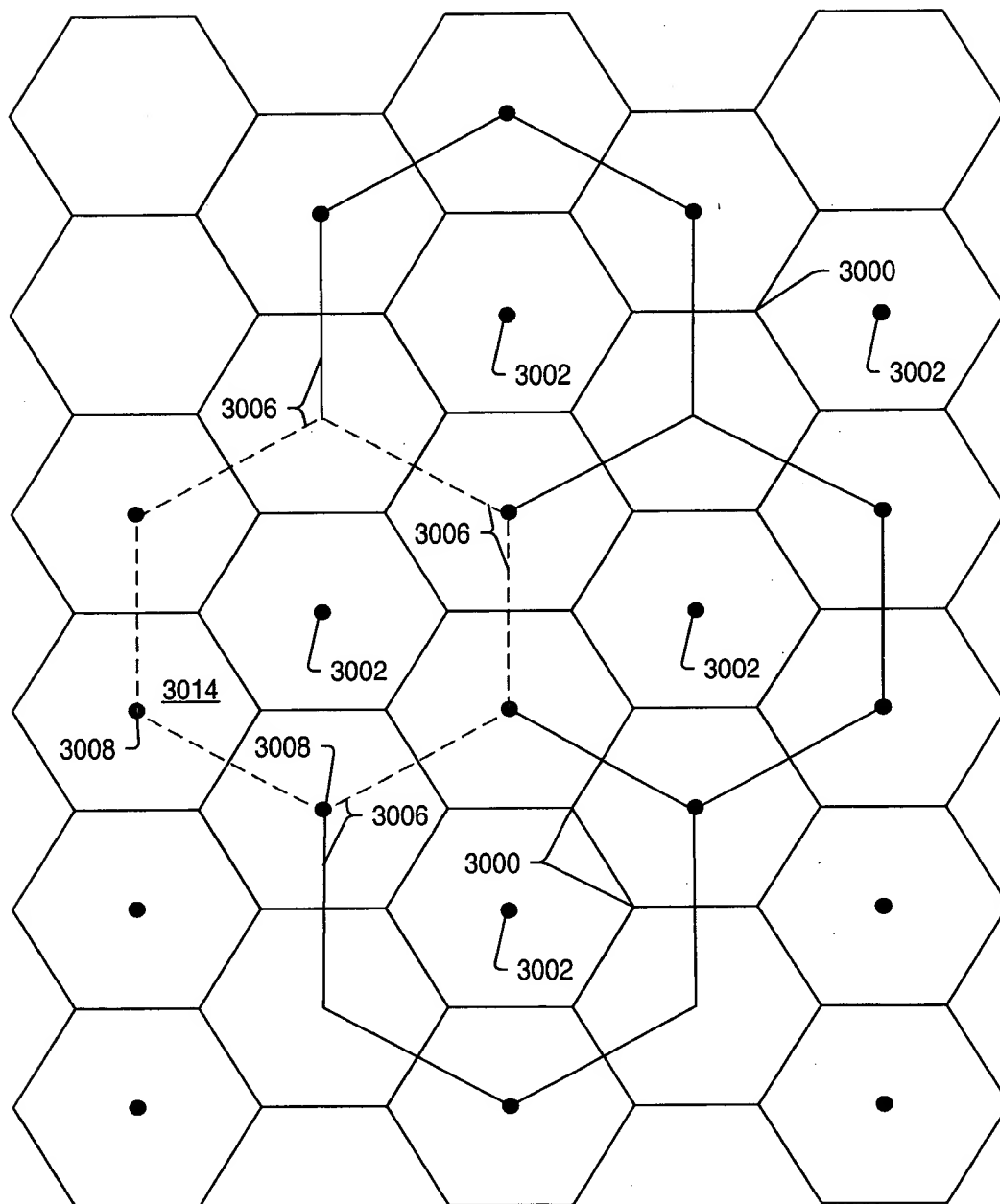


FIG. 75

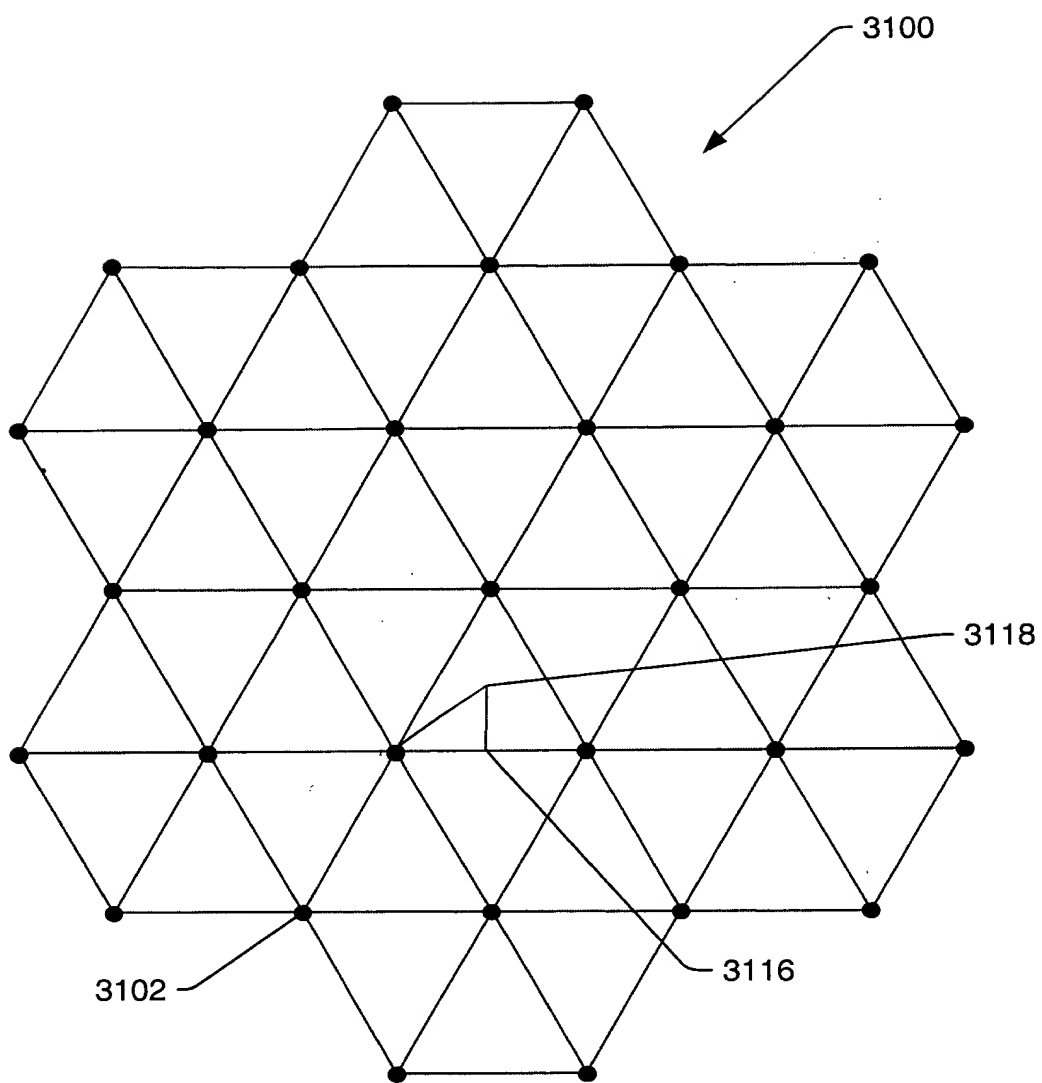


FIG. 76

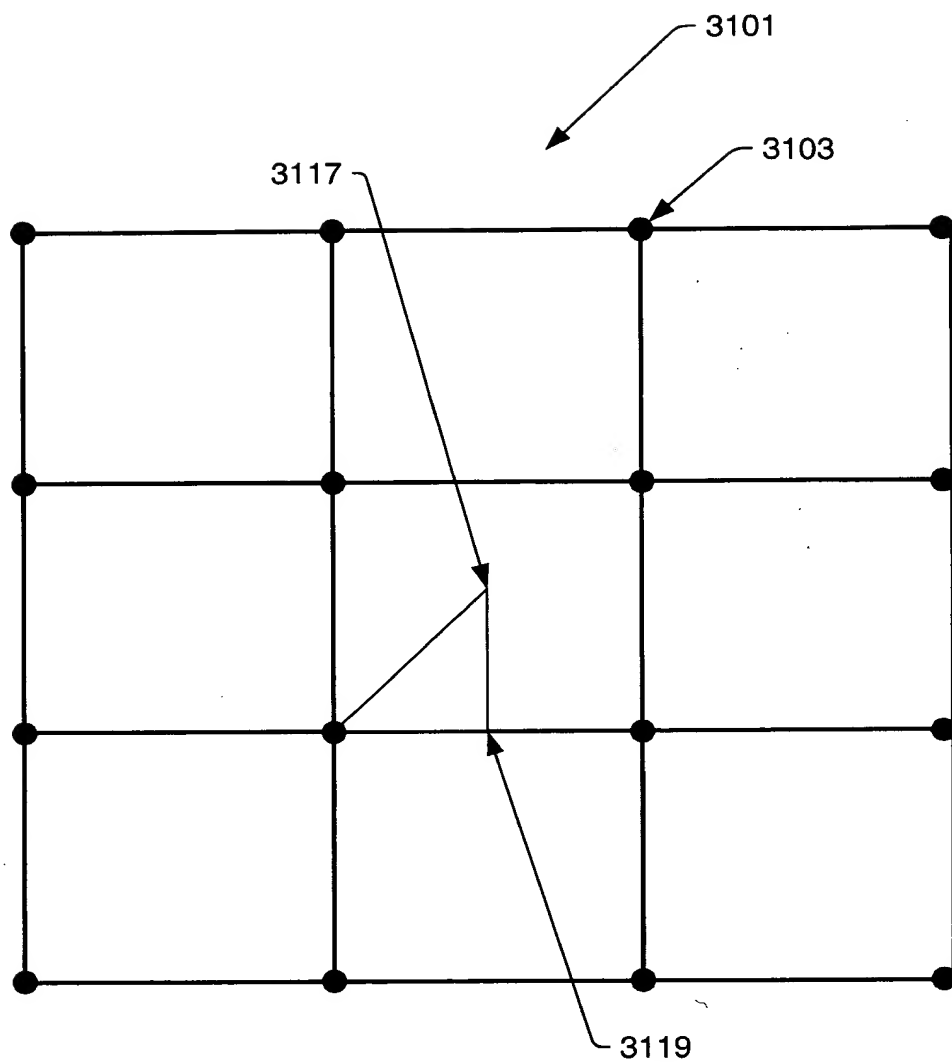


FIG. 76a

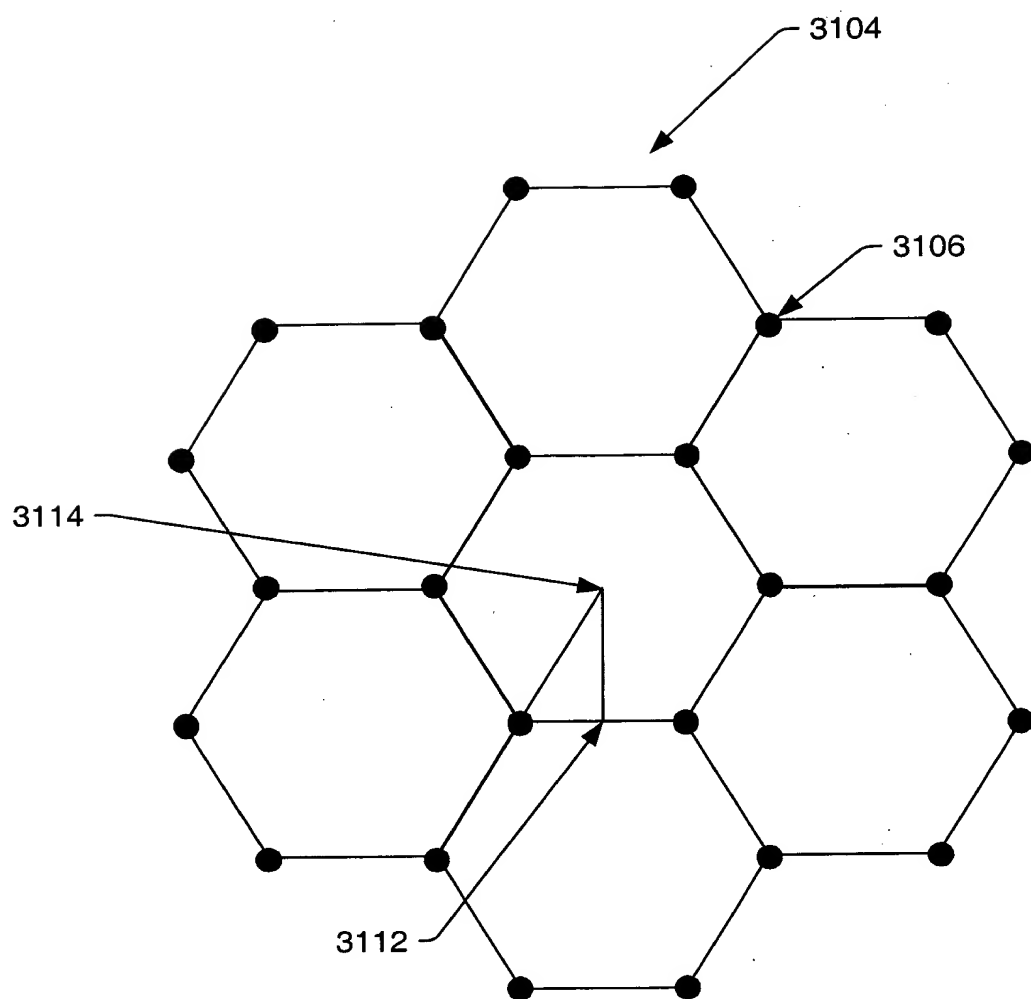


FIG. 77

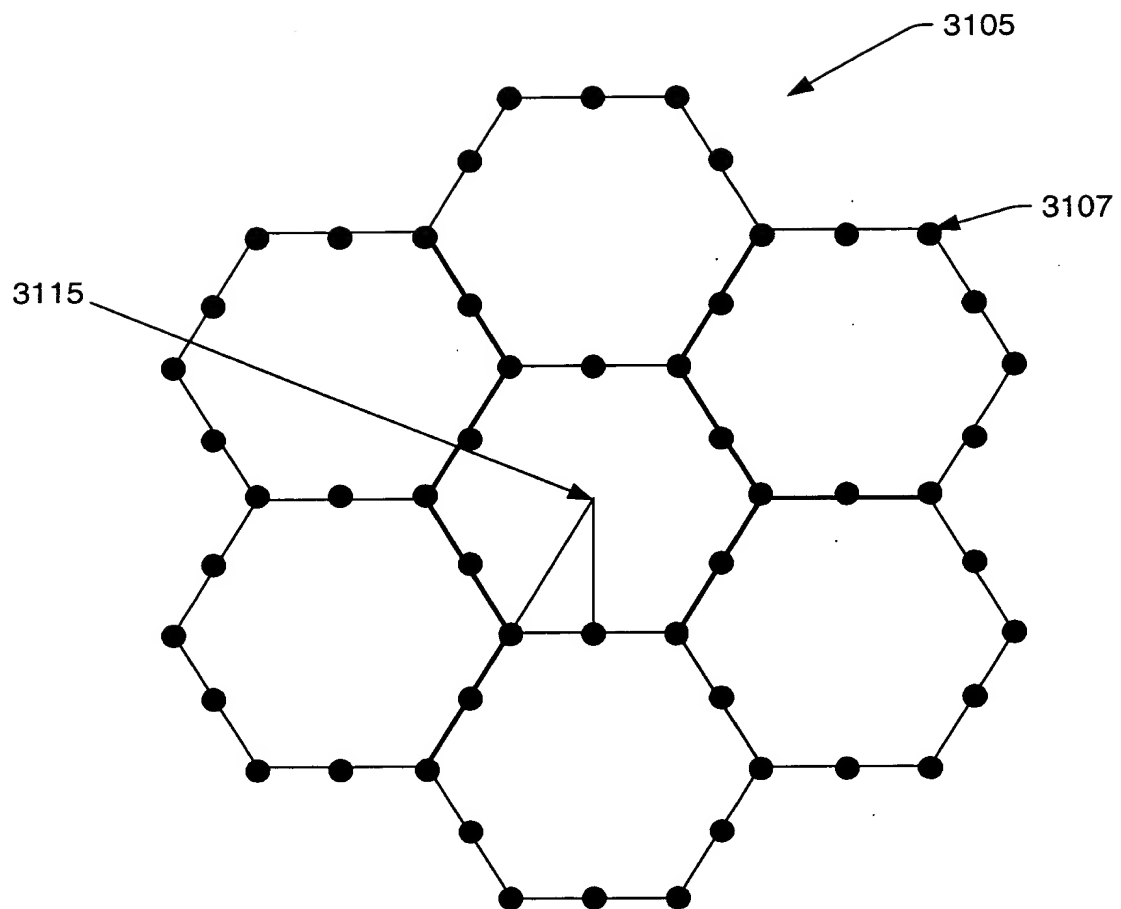


FIG. 77a

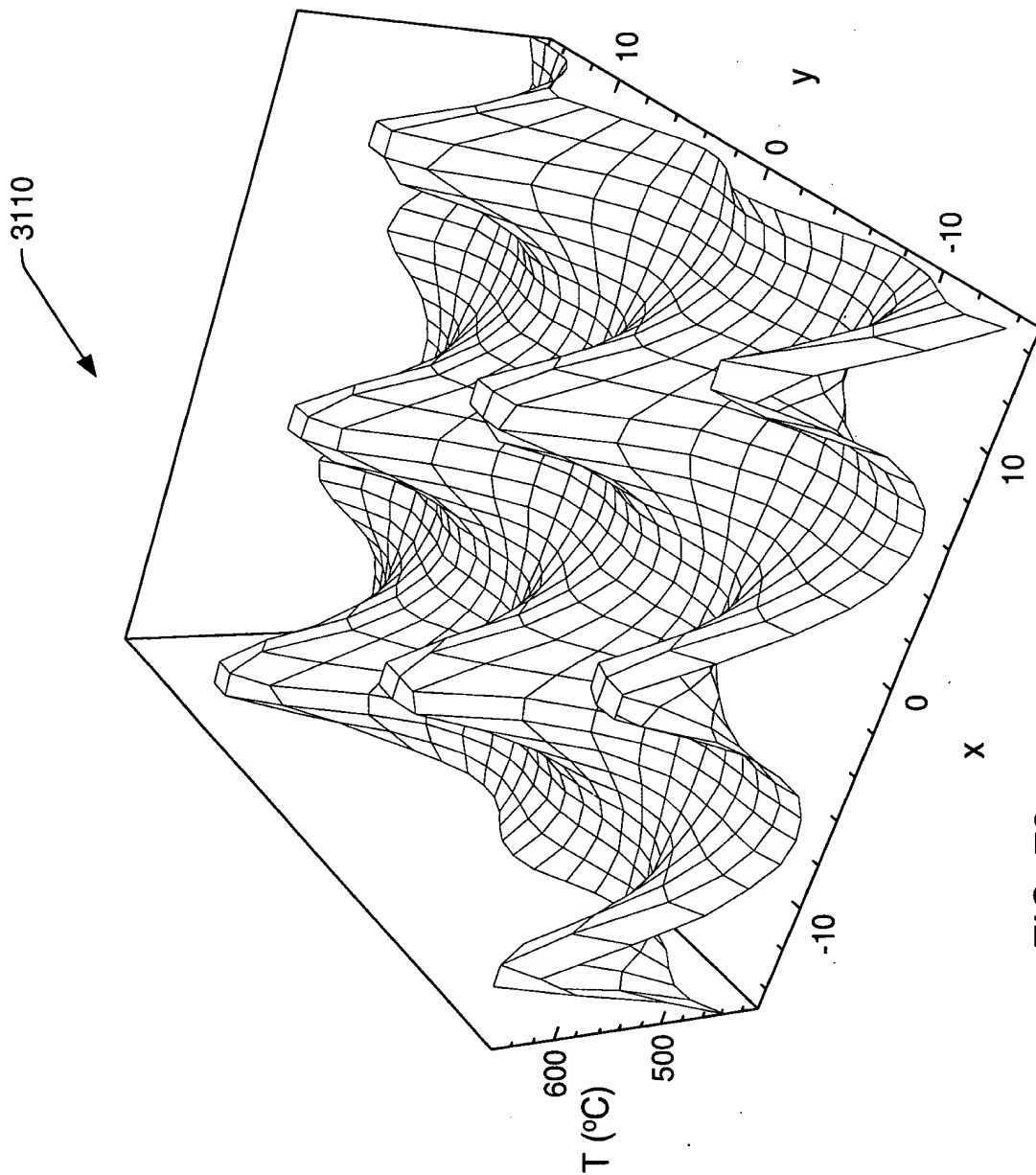


FIG. 78

3108

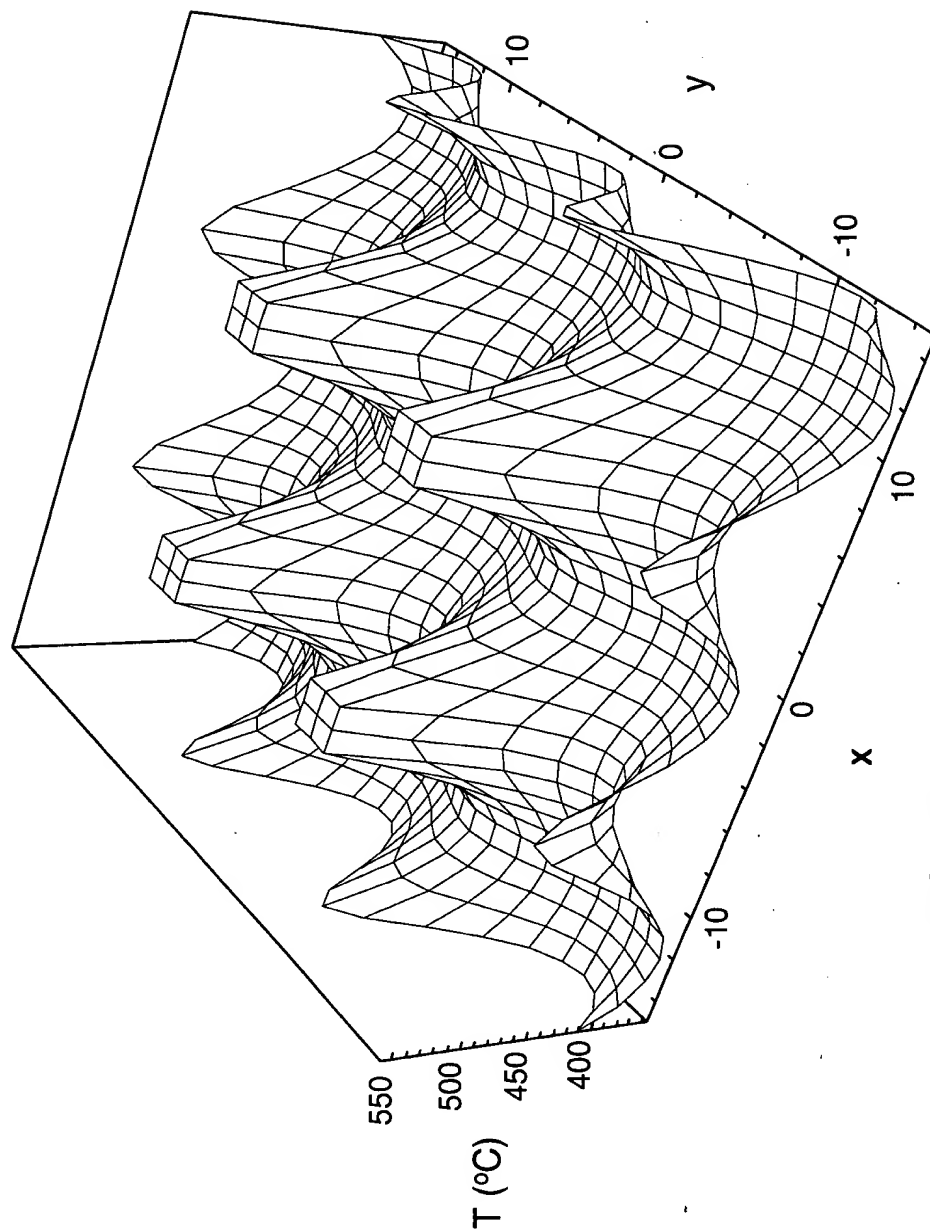


FIG. 79

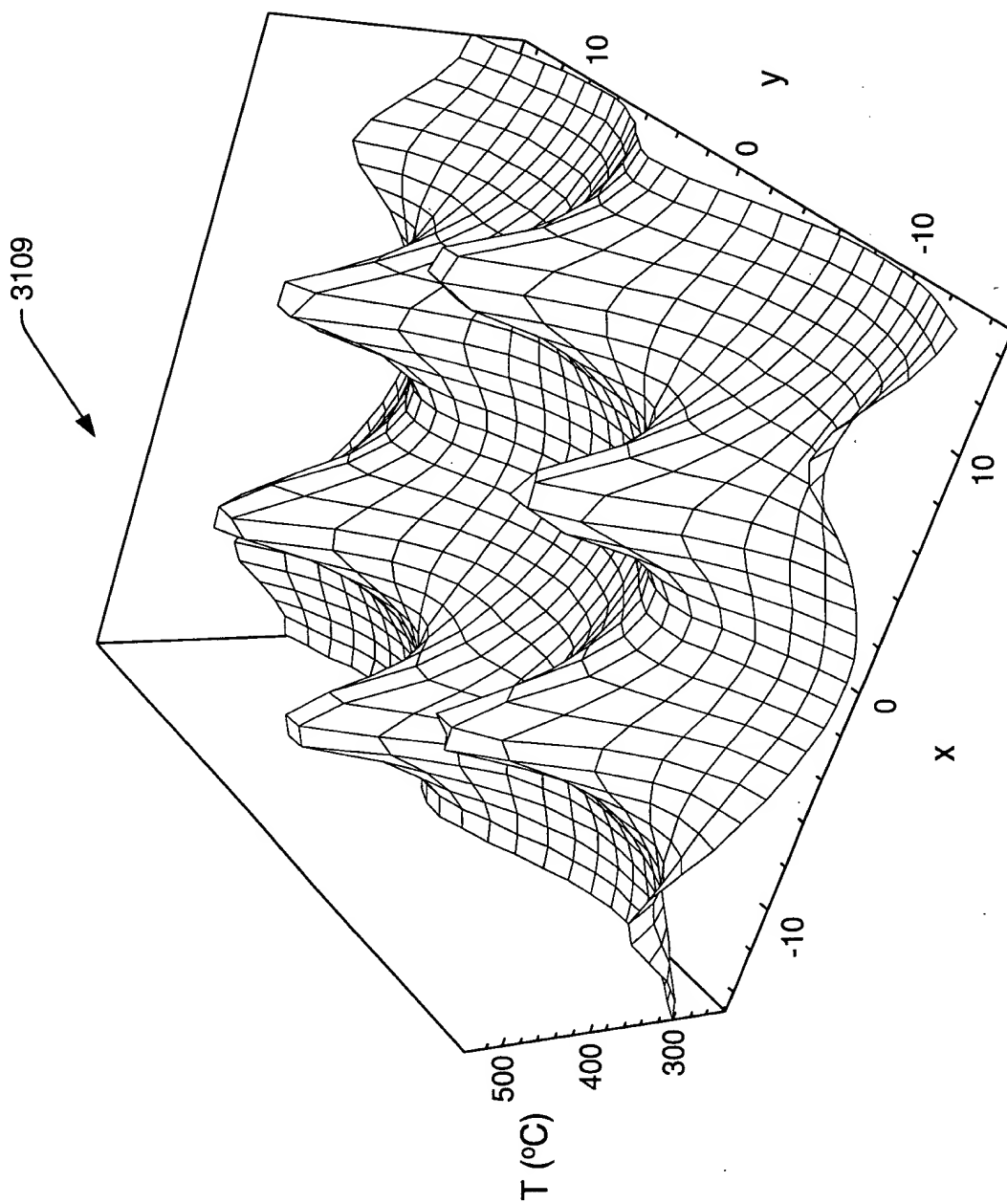


FIG. 79a

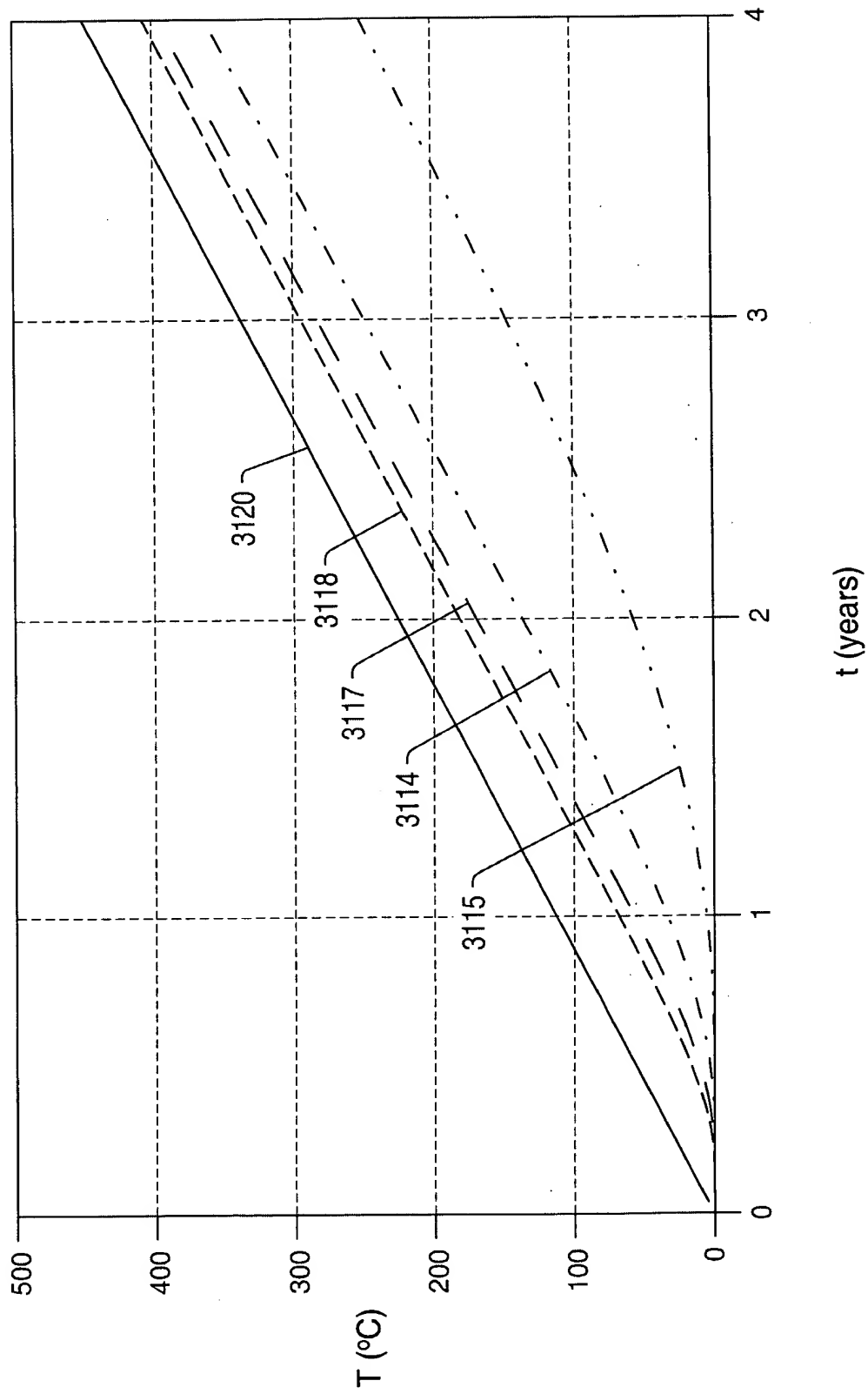


FIG. 80

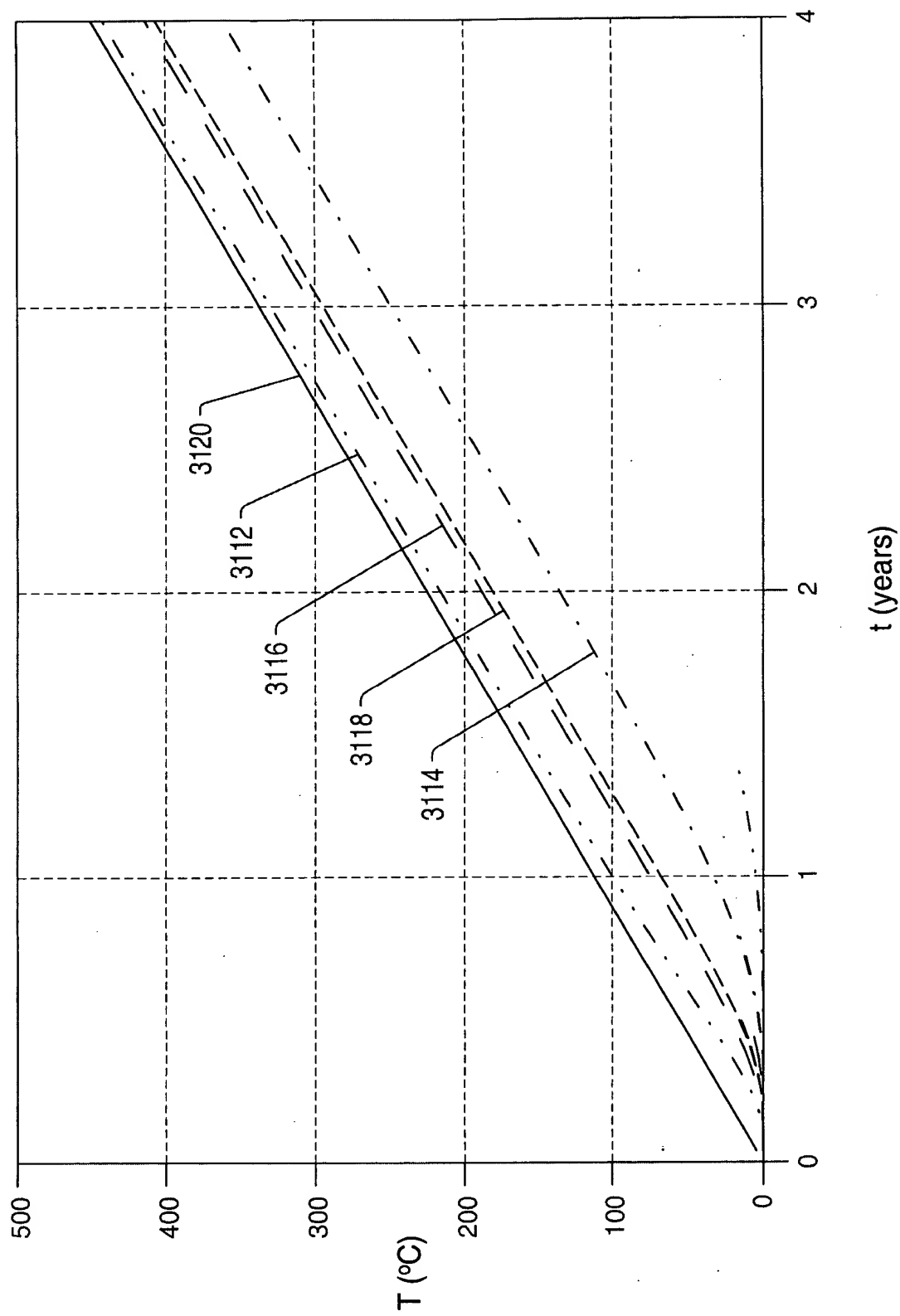


FIG. 81

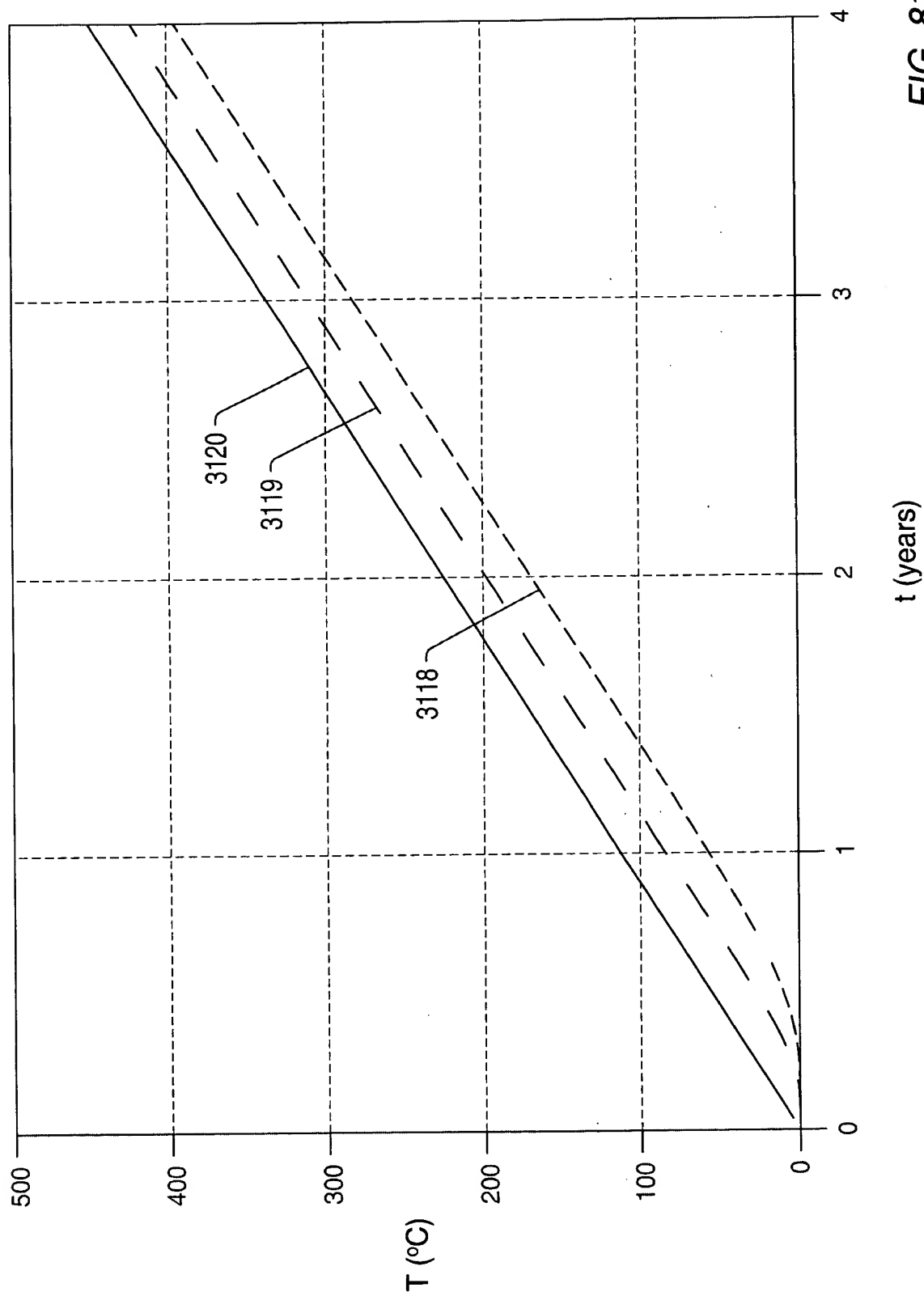


FIG. 81a

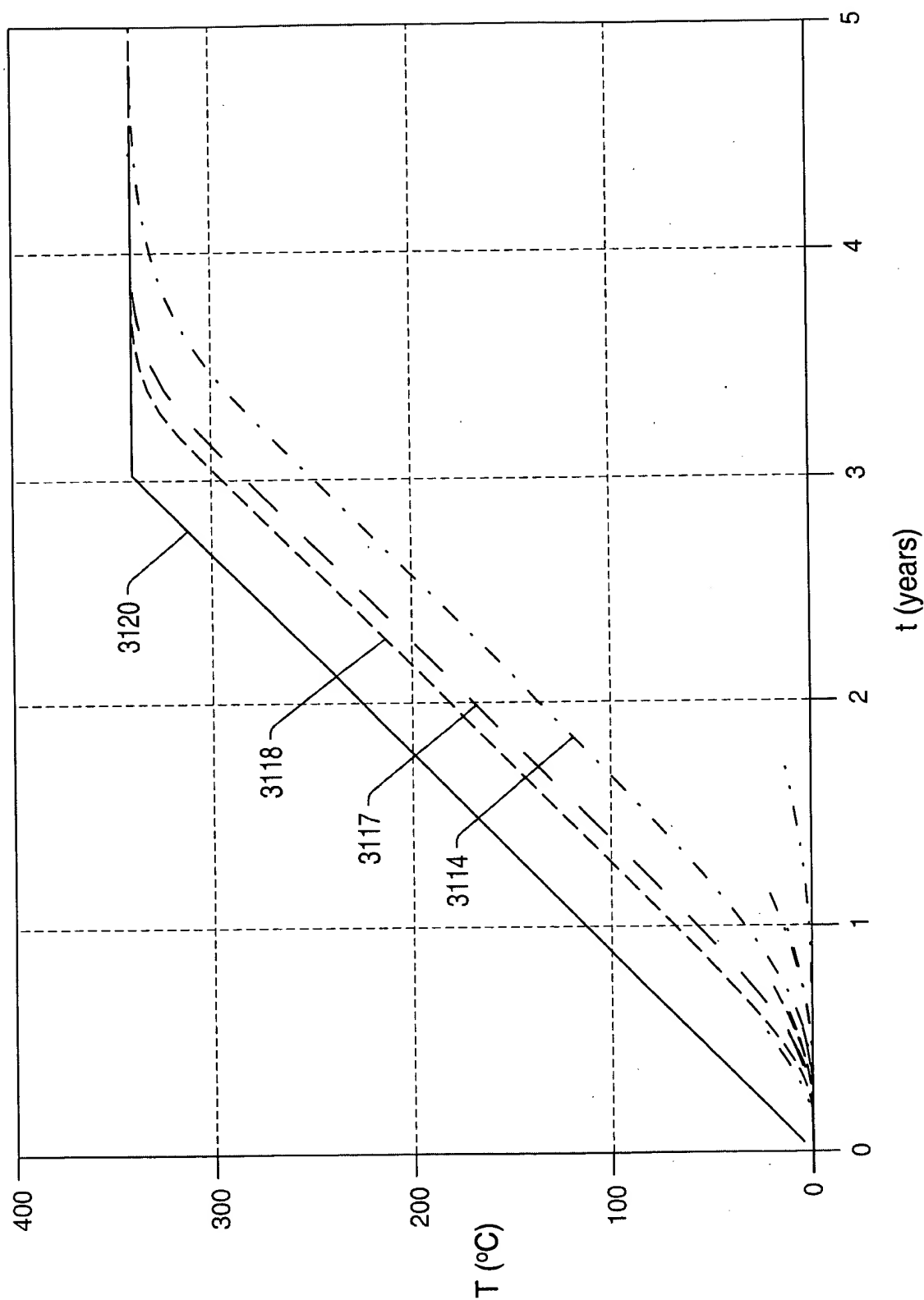
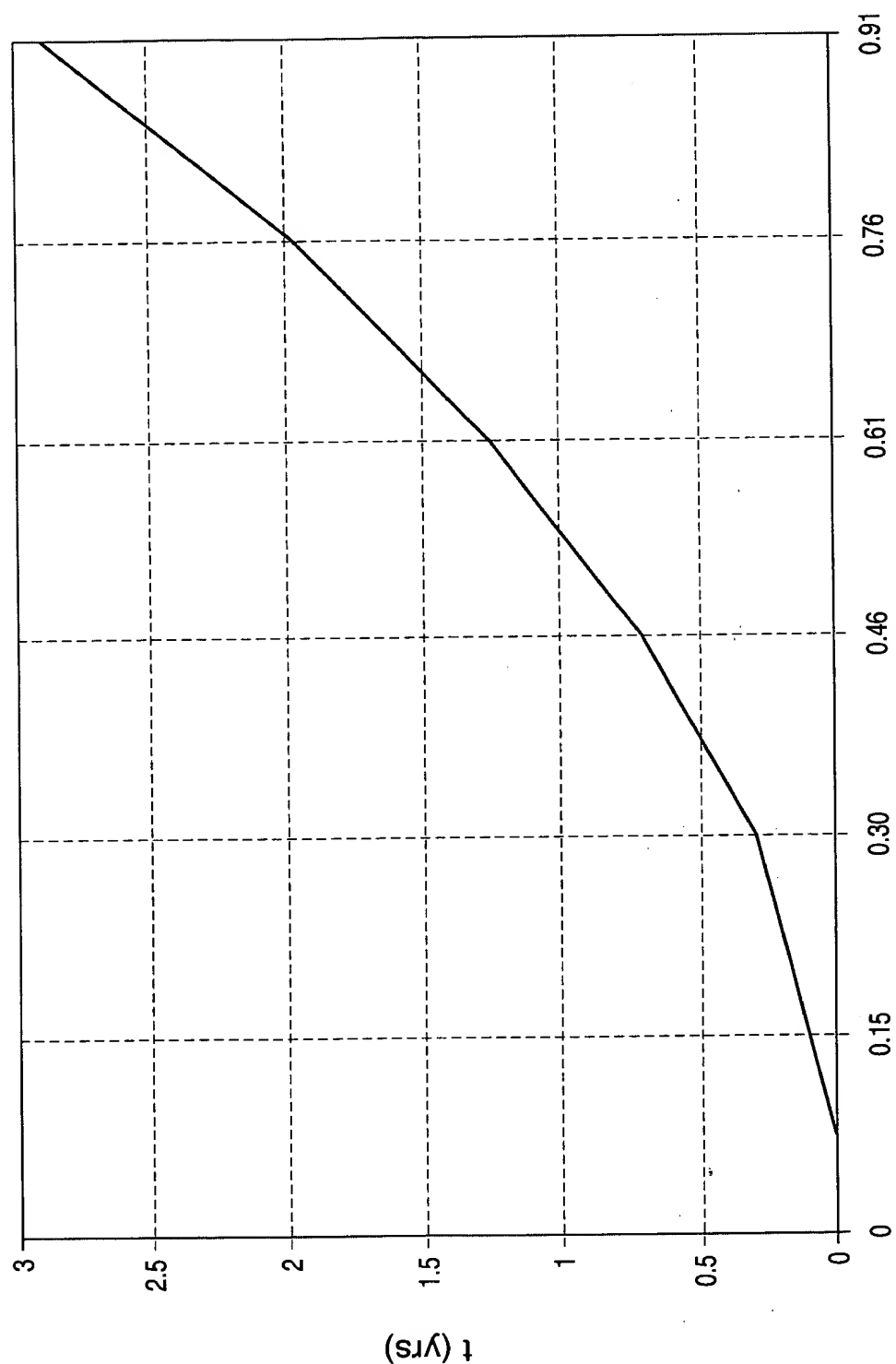


FIG. 81b



L (m)

FIG. 82

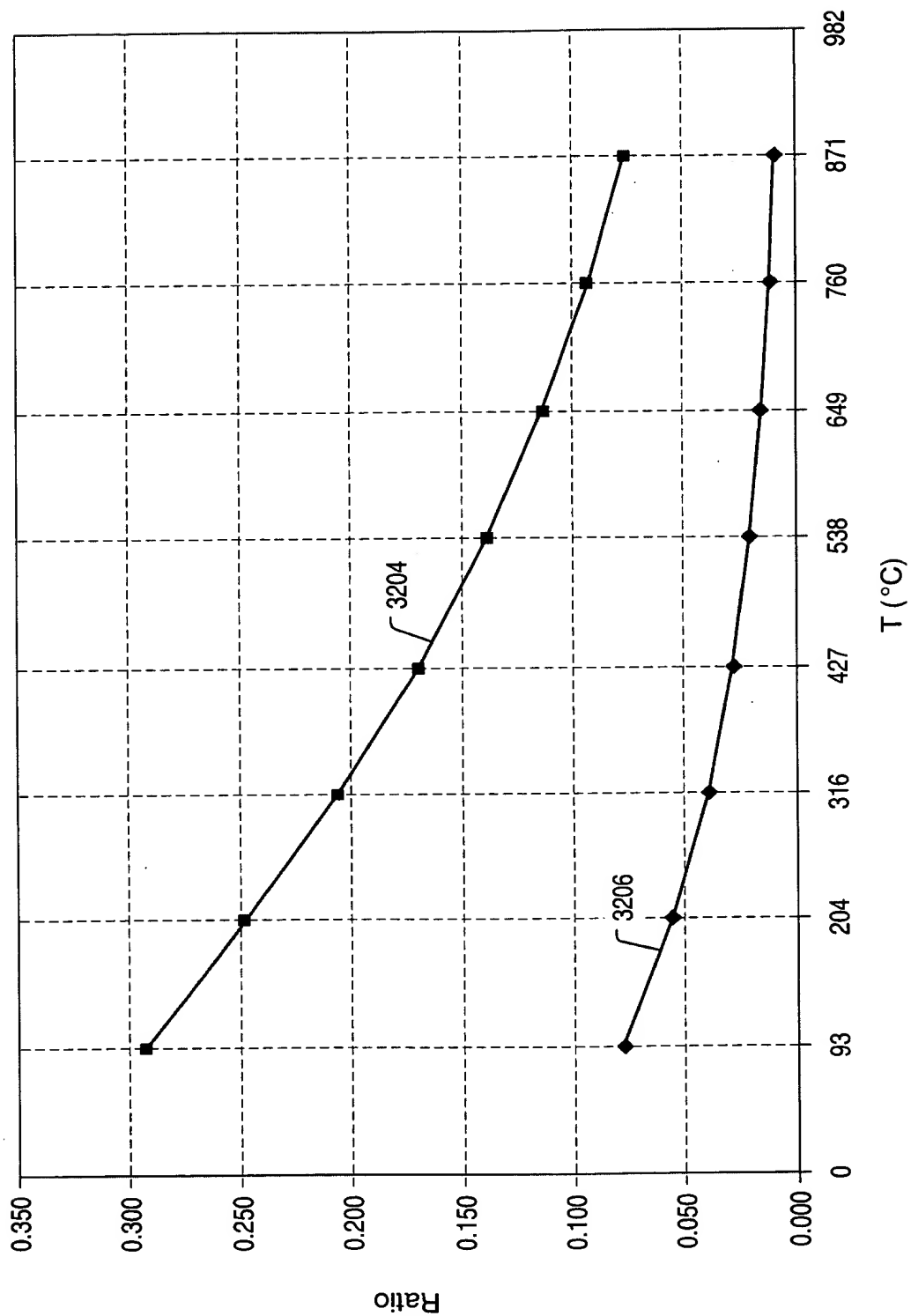


FIG. 83

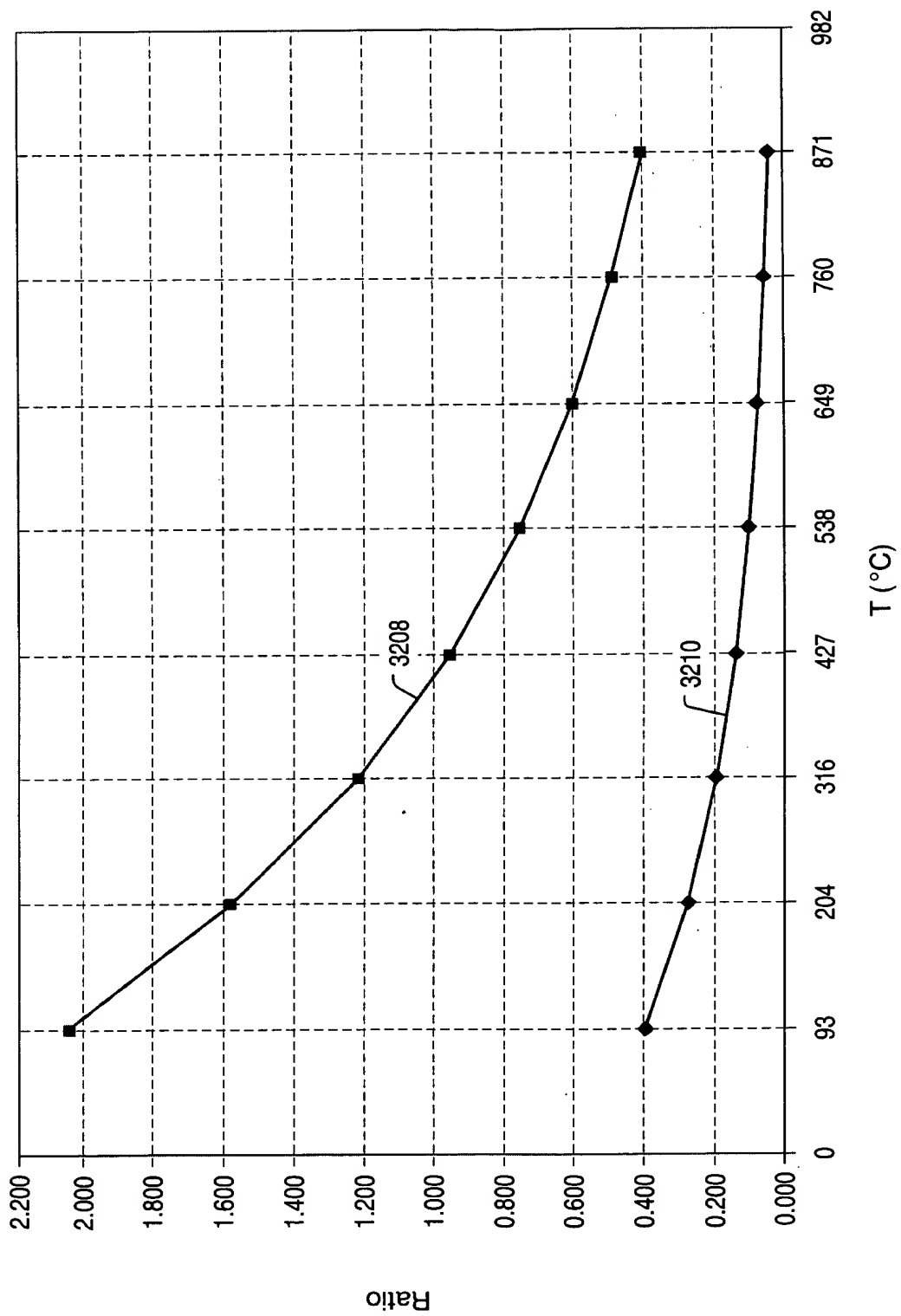


FIG. 84

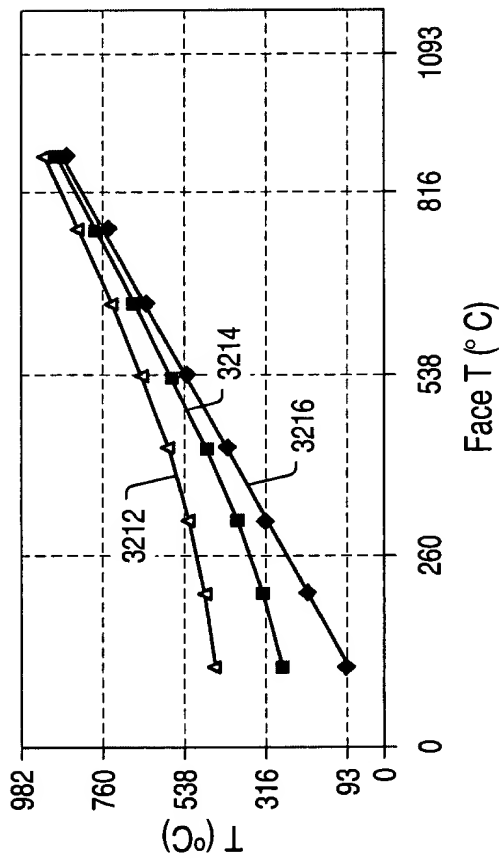


FIG. 85

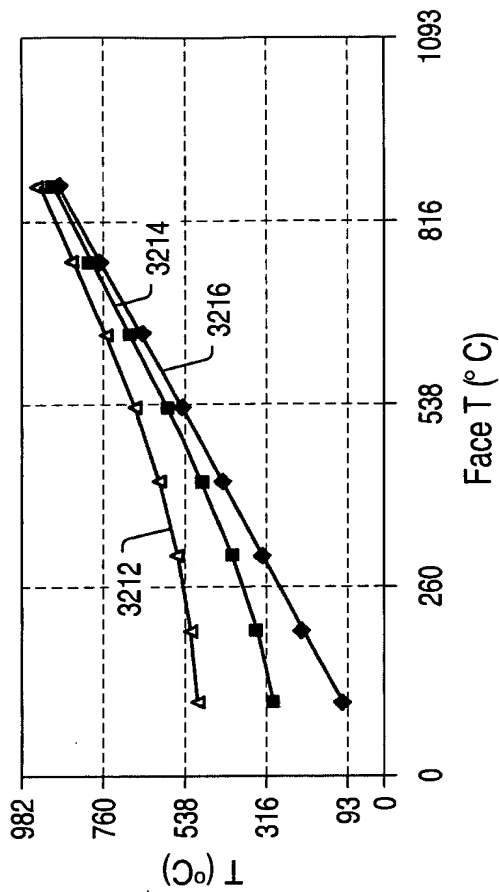


FIG. 86

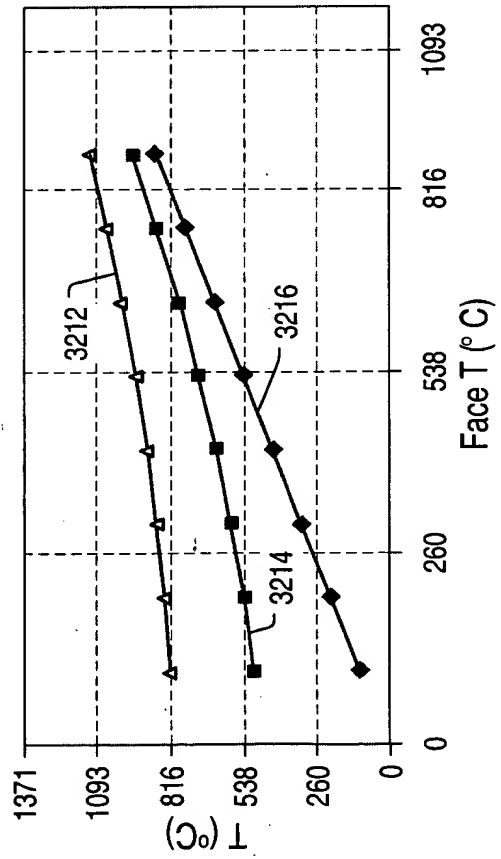


FIG. 87

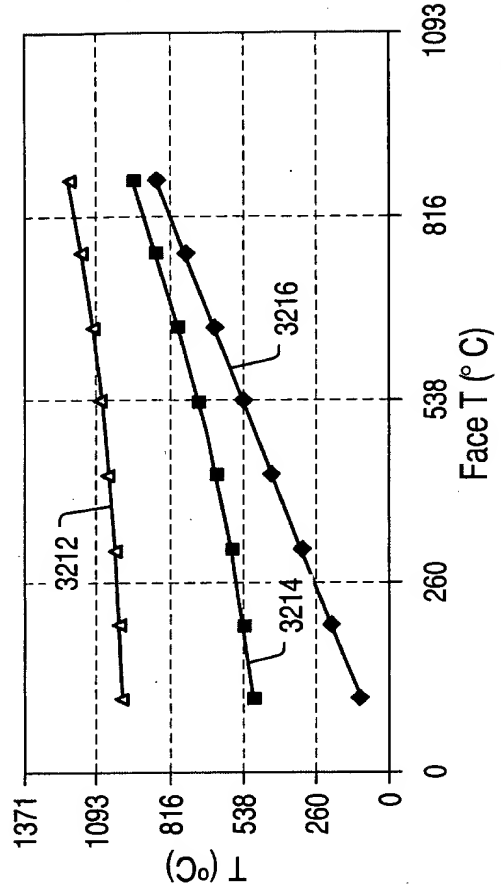
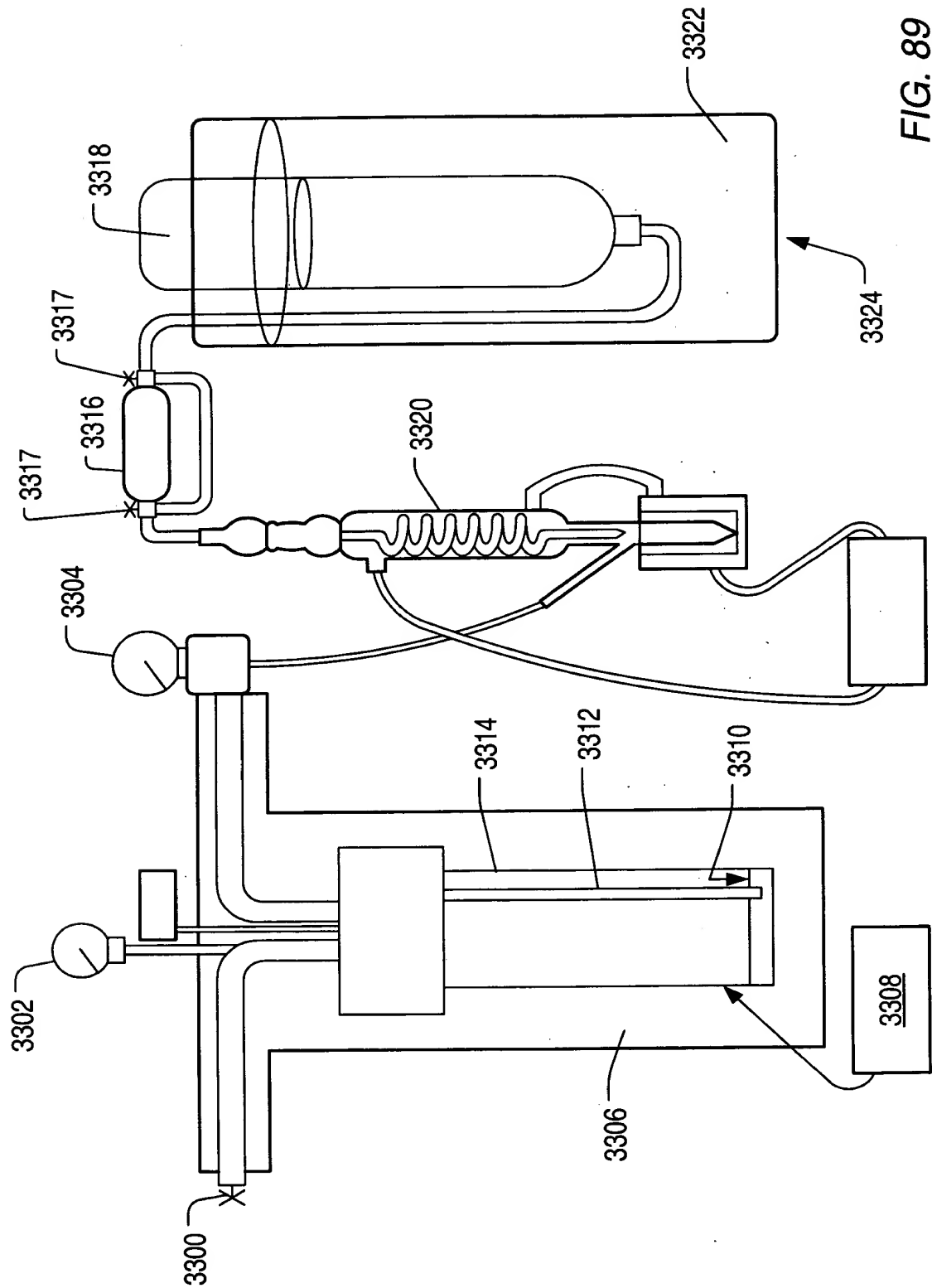


FIG. 88



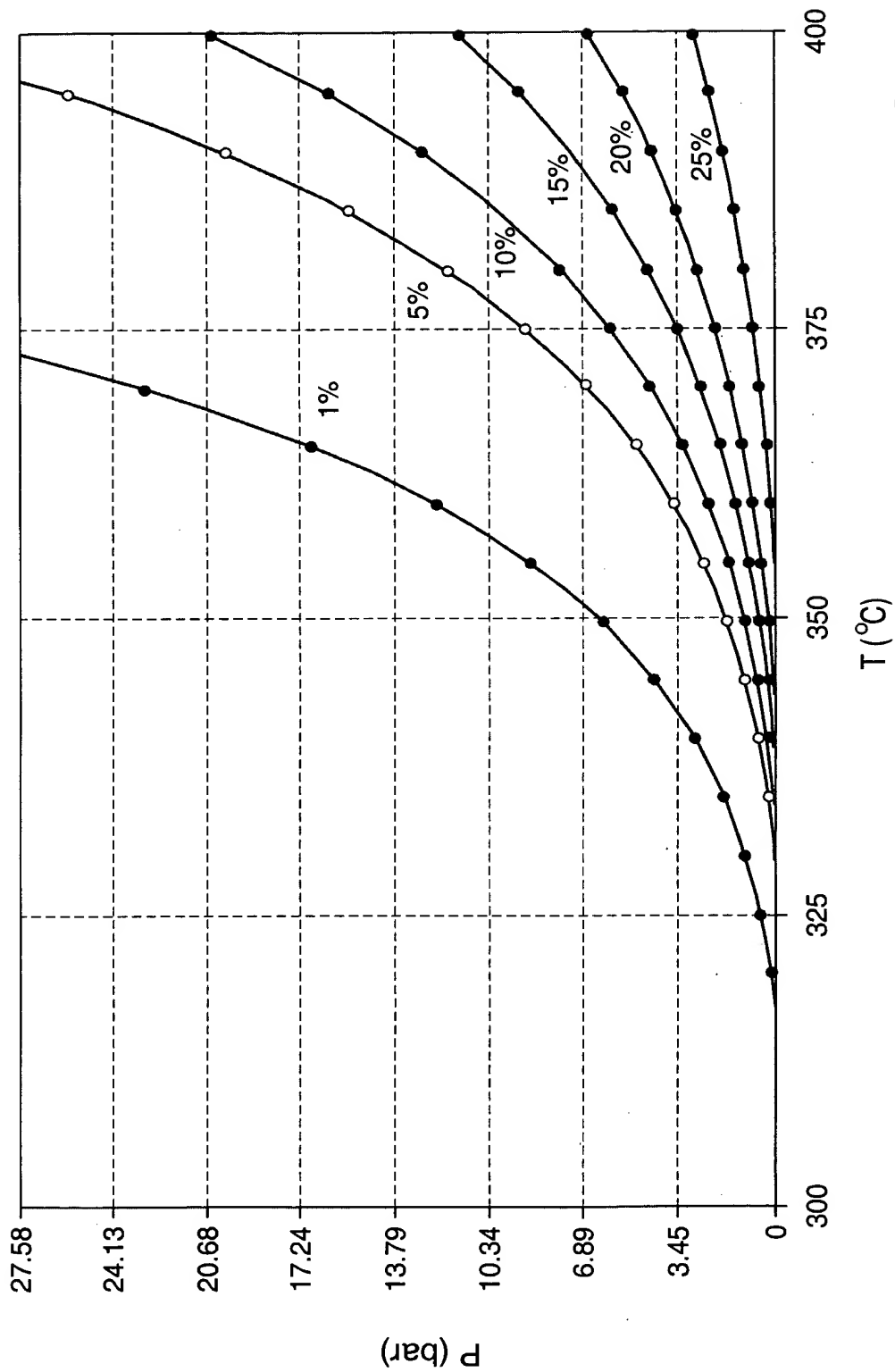


FIG. 90

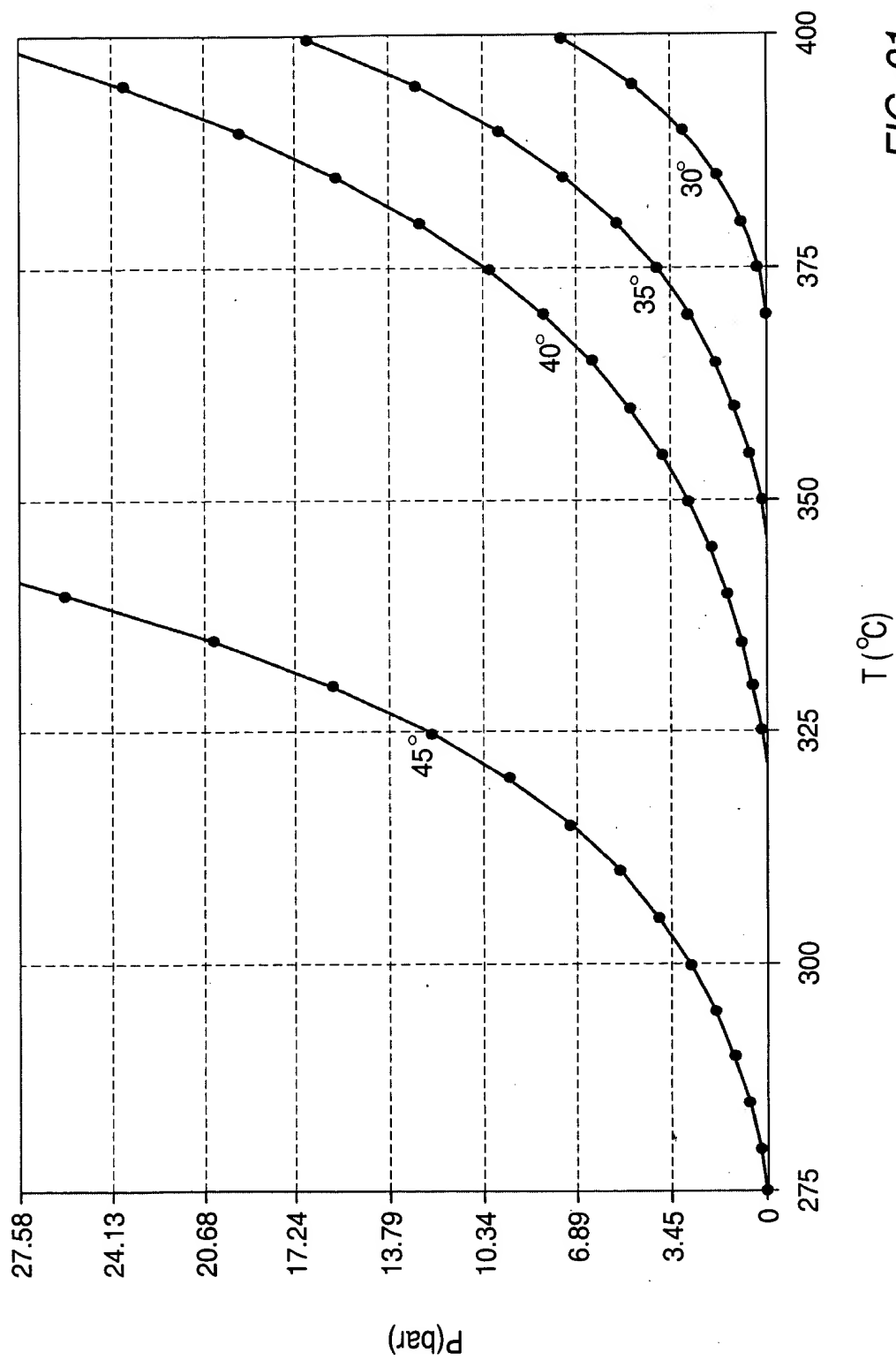


FIG. 91

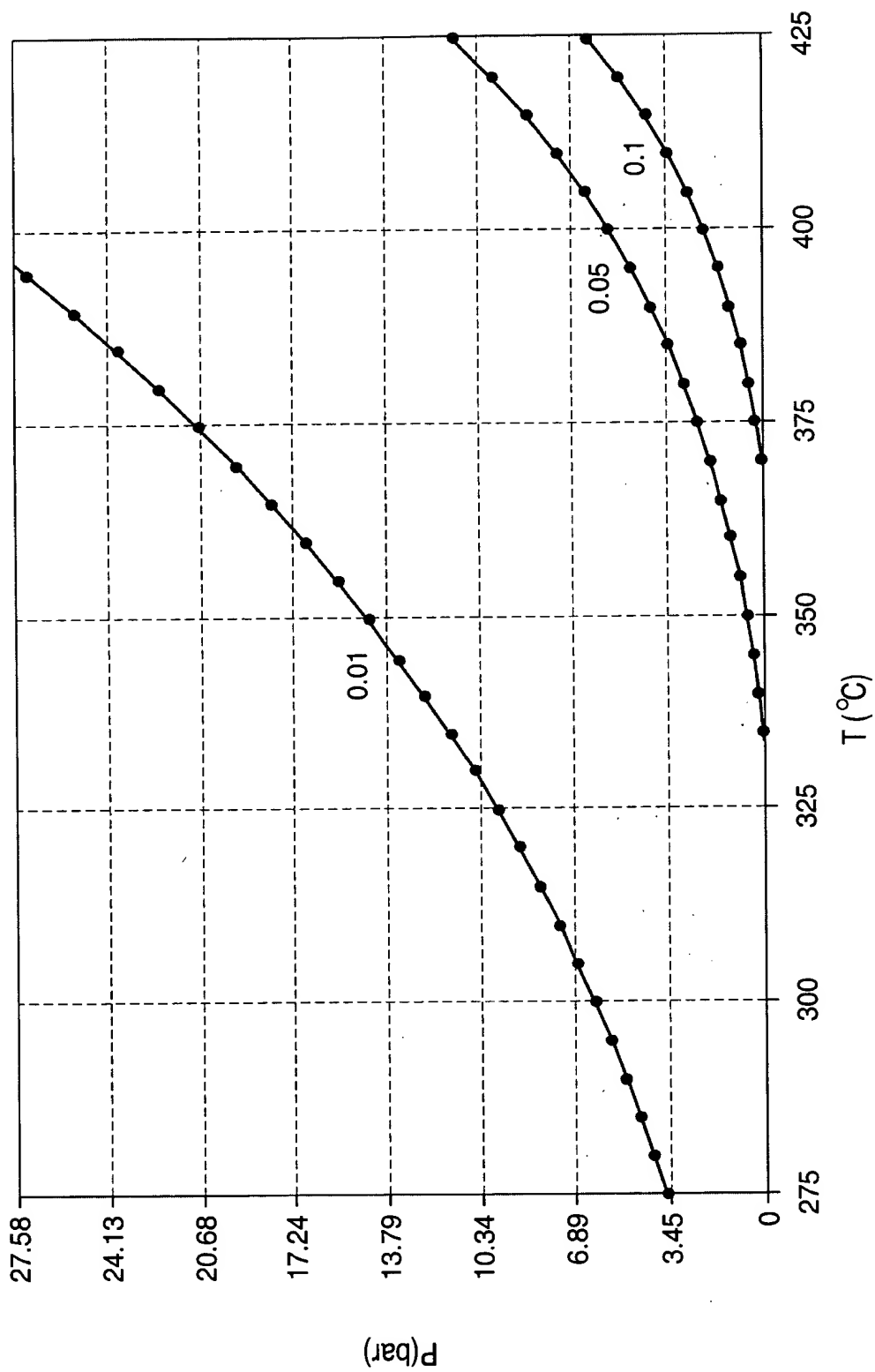


FIG. 92

FIG. 93

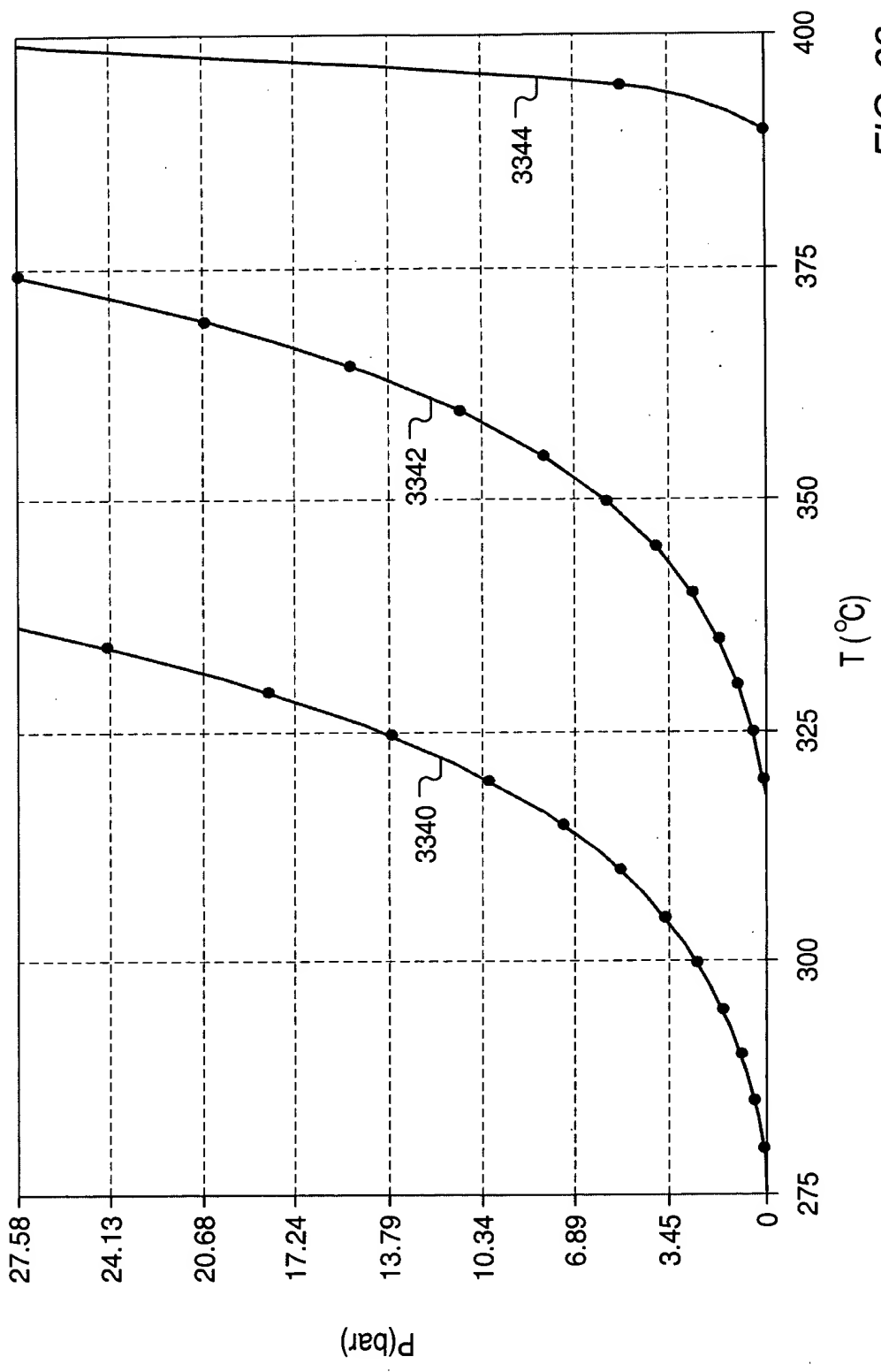


FIG. 93

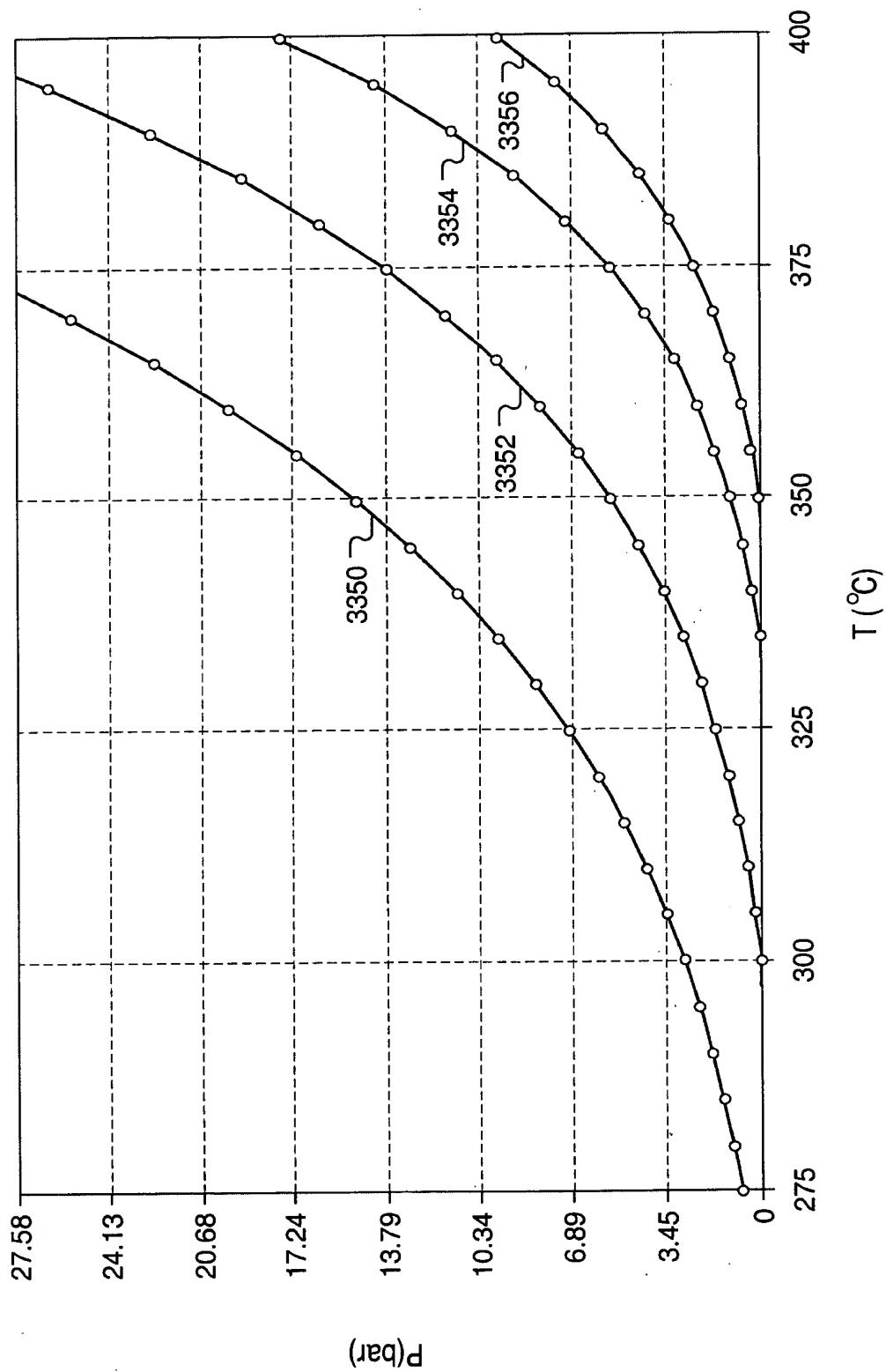


FIG. 94

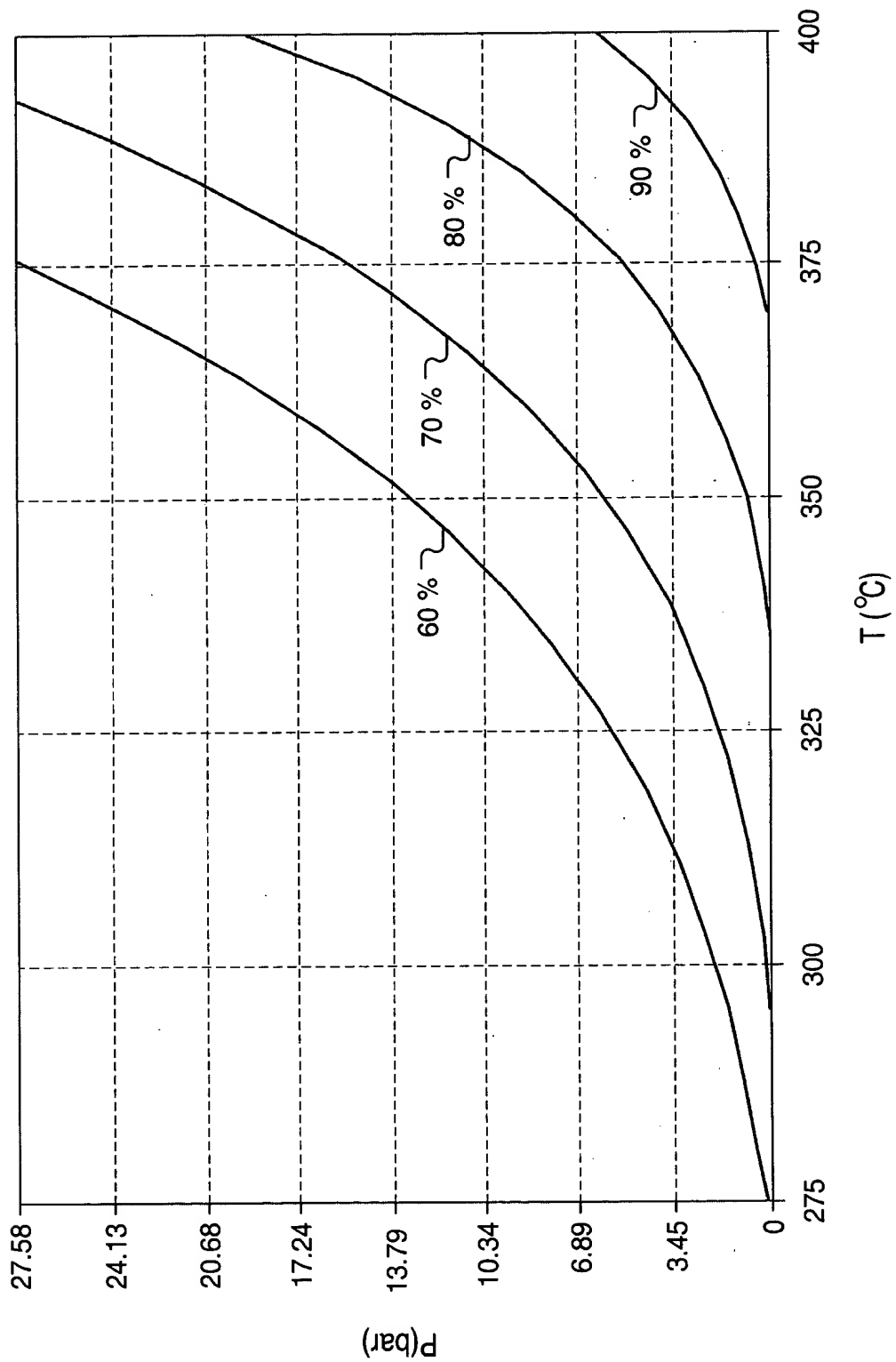


FIG. 95

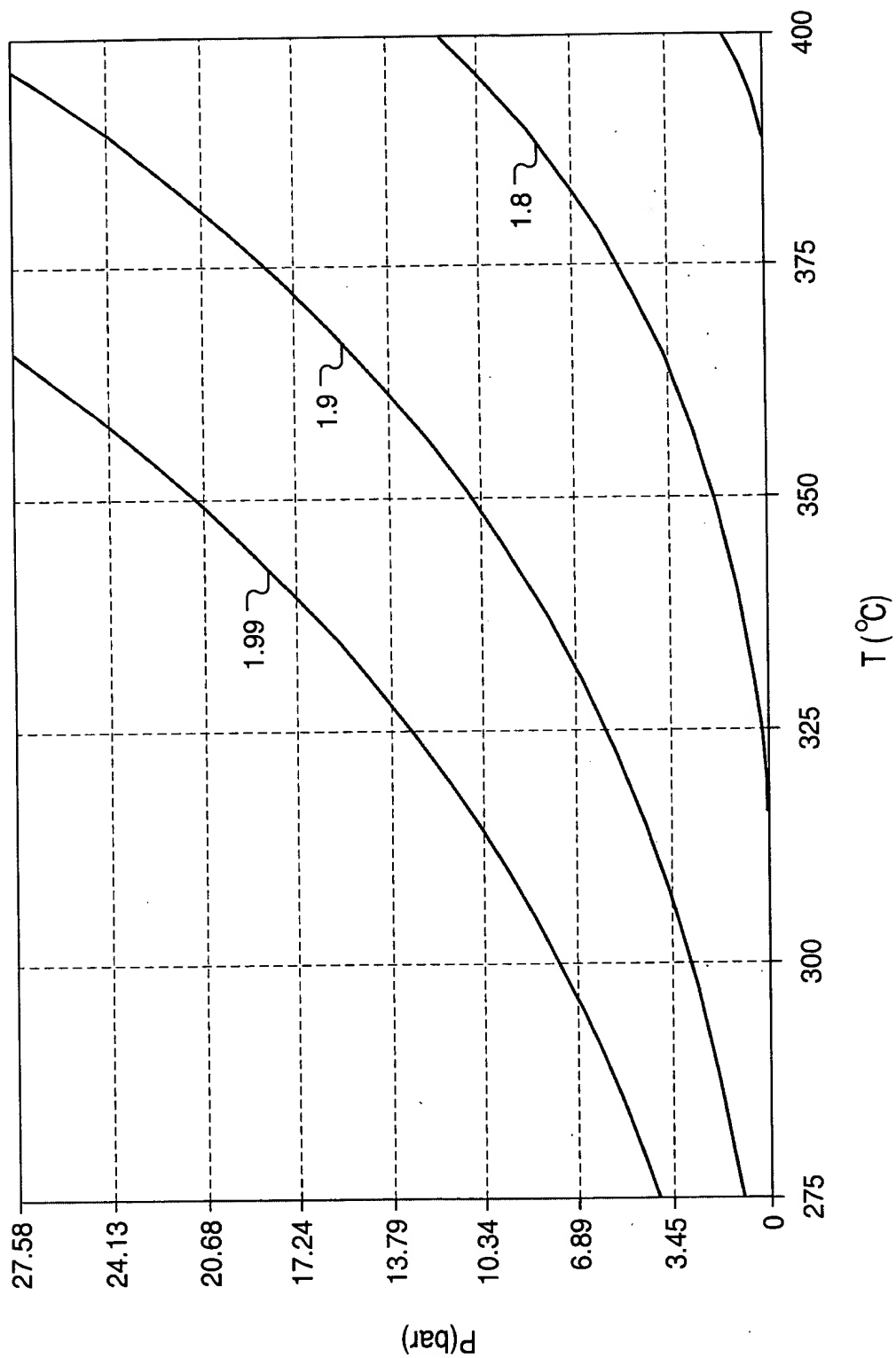
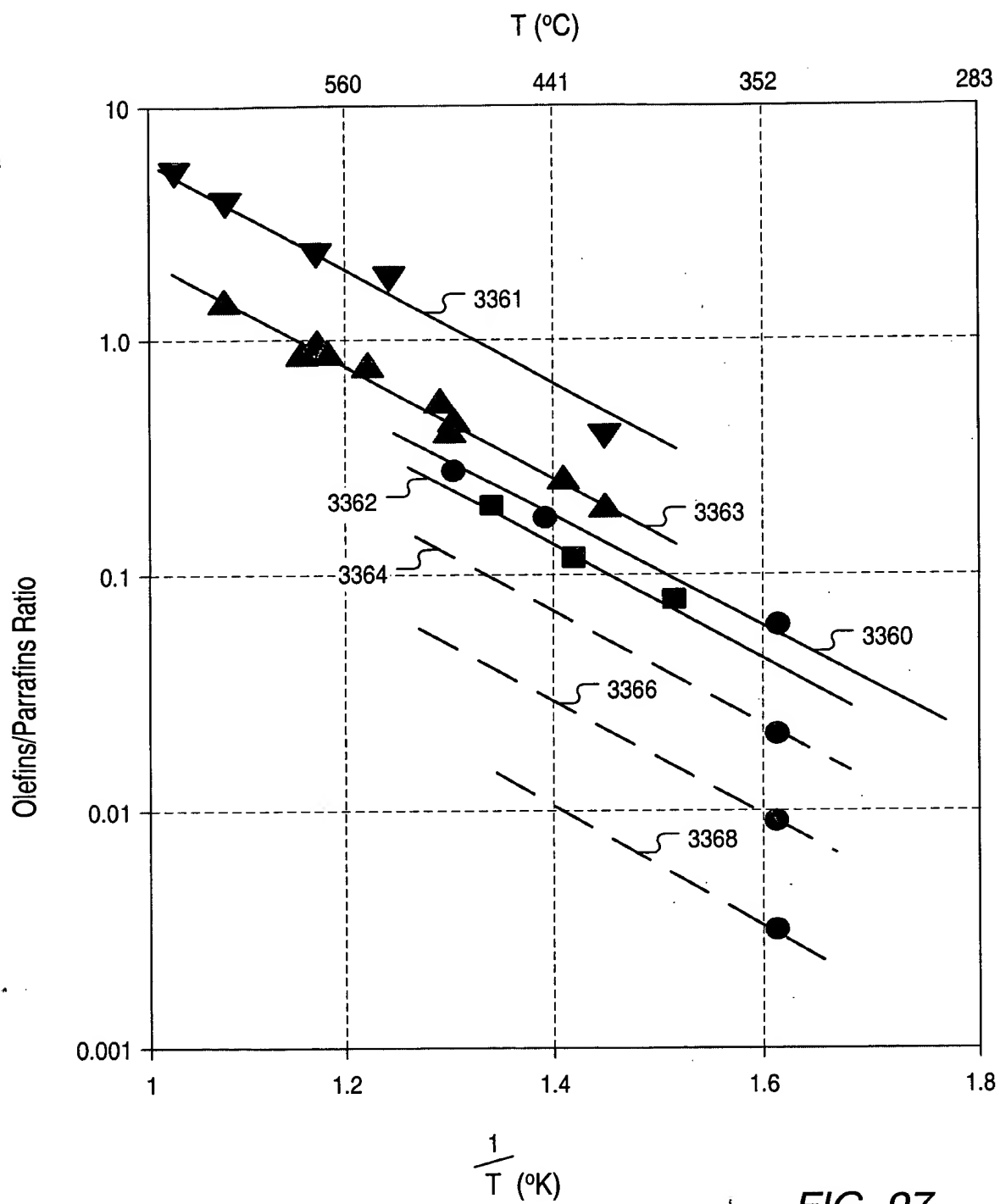


FIG. 96



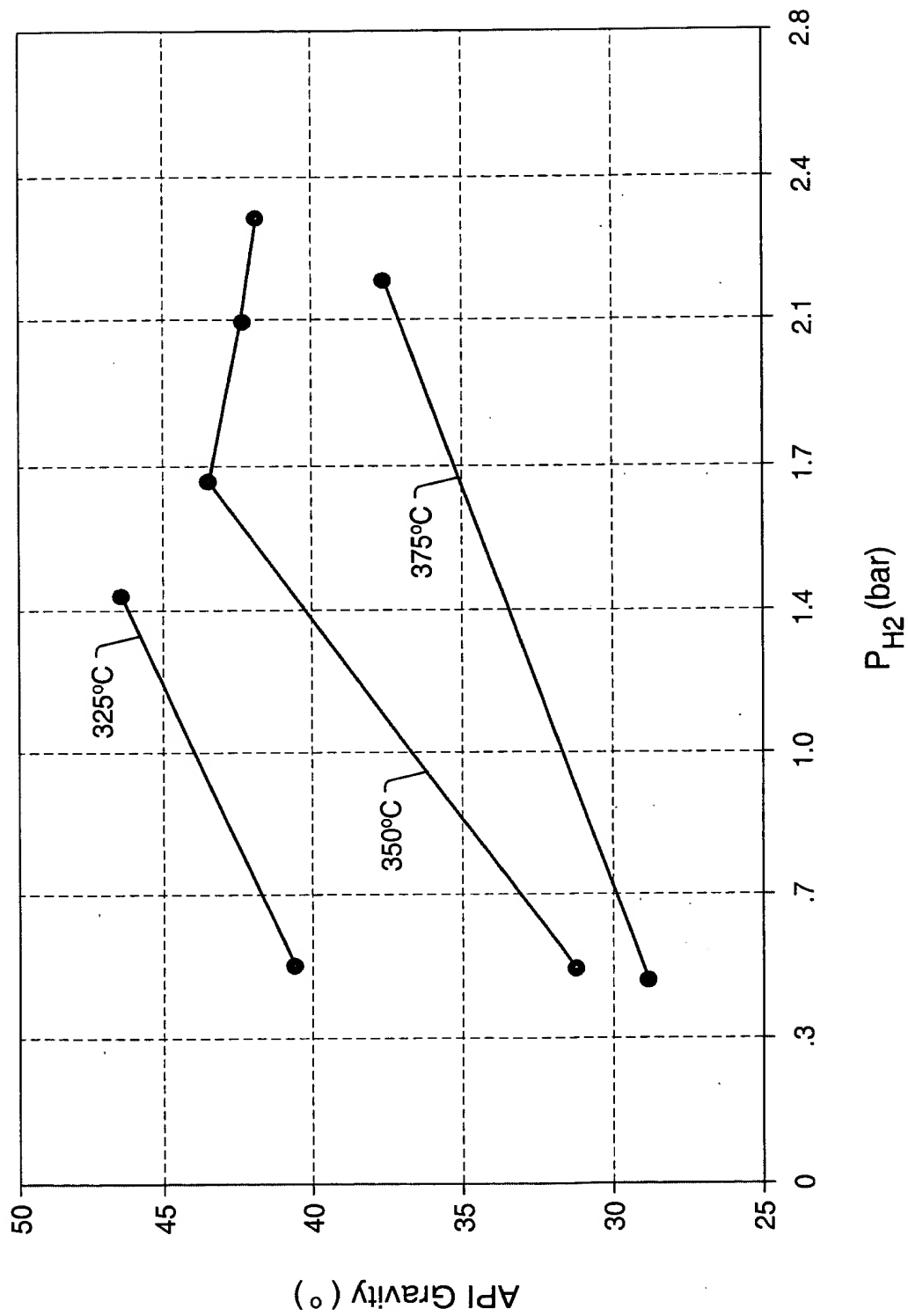


FIG. 98

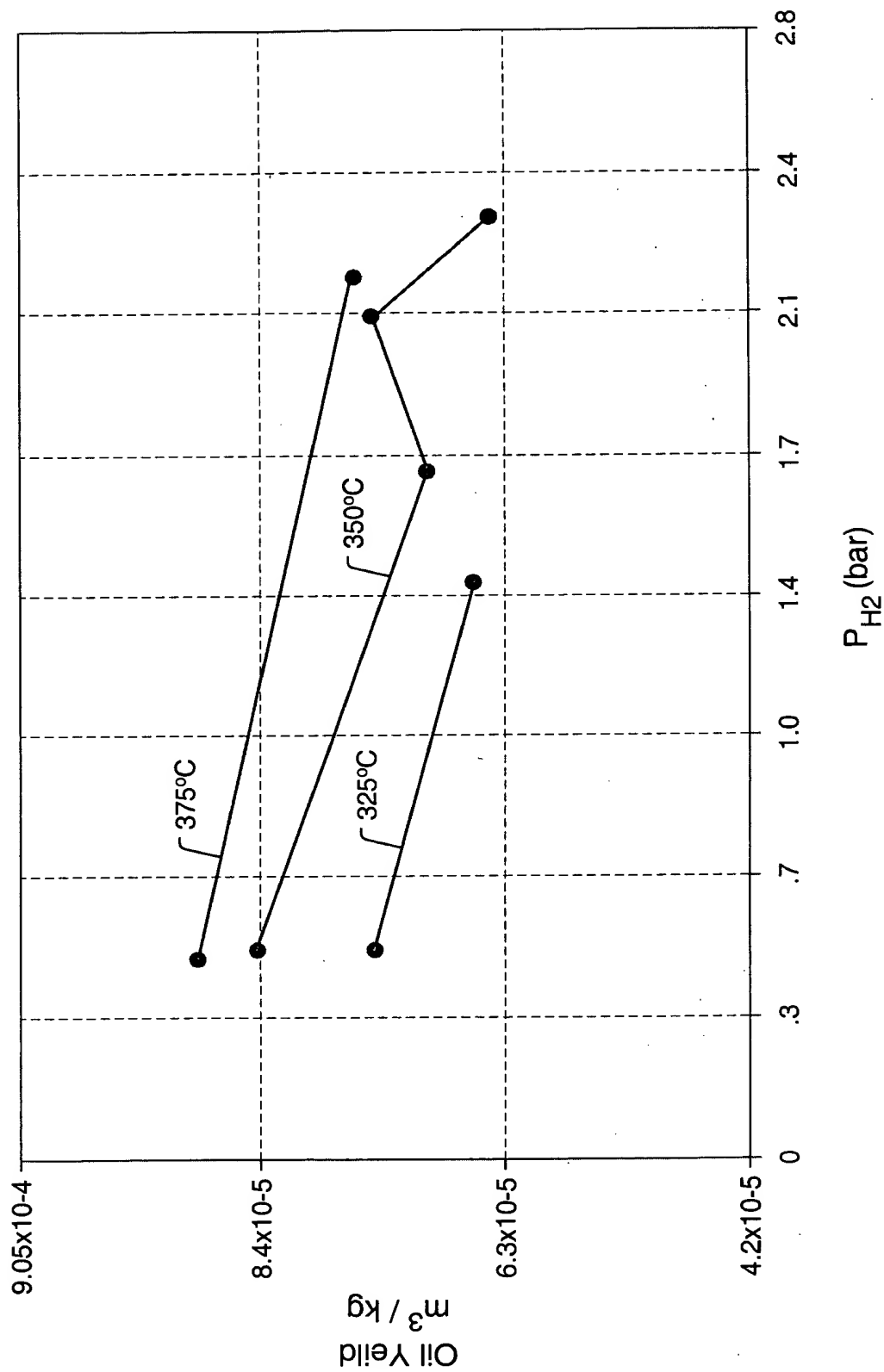


FIG. 99

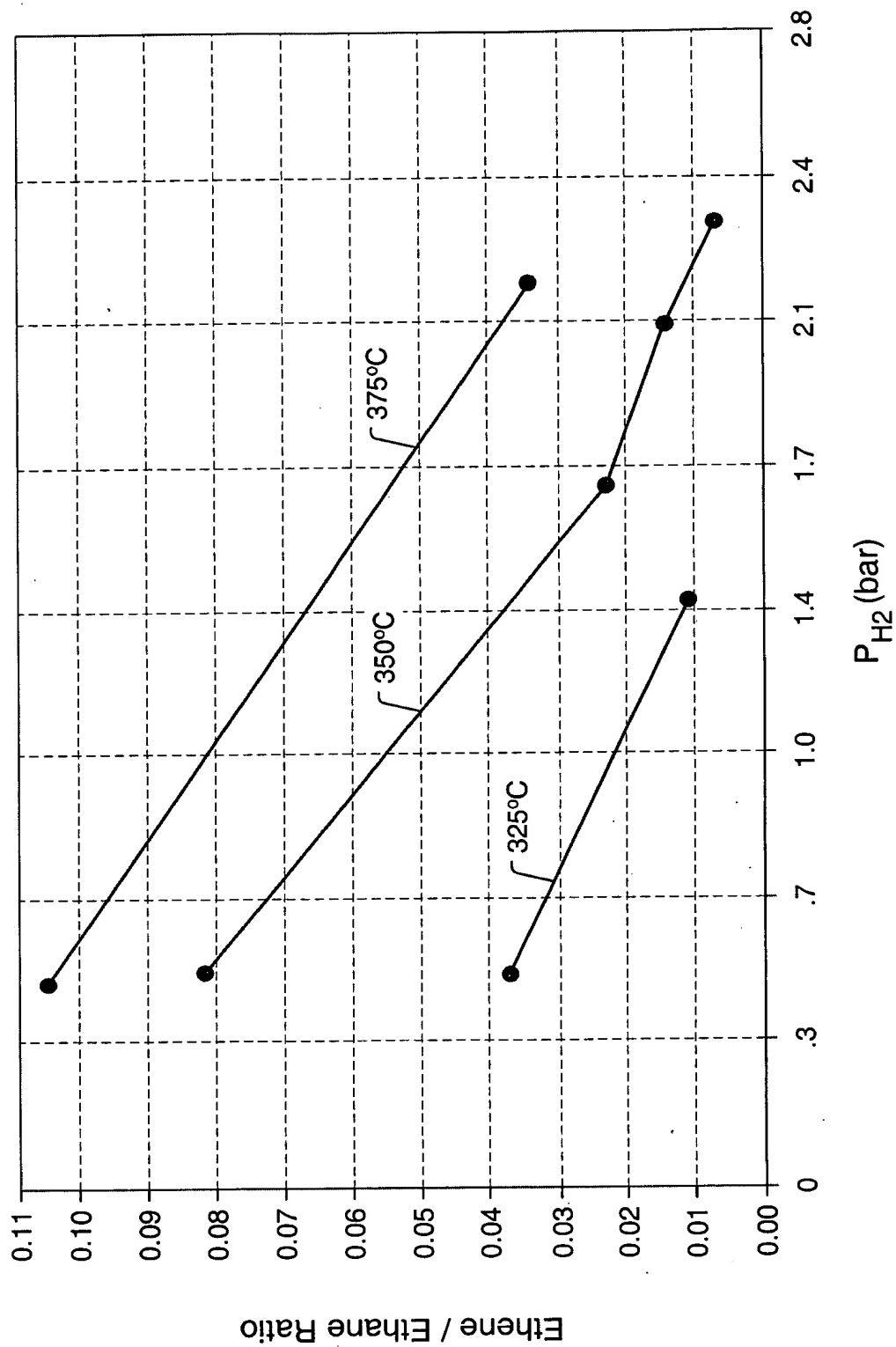


FIG. 100

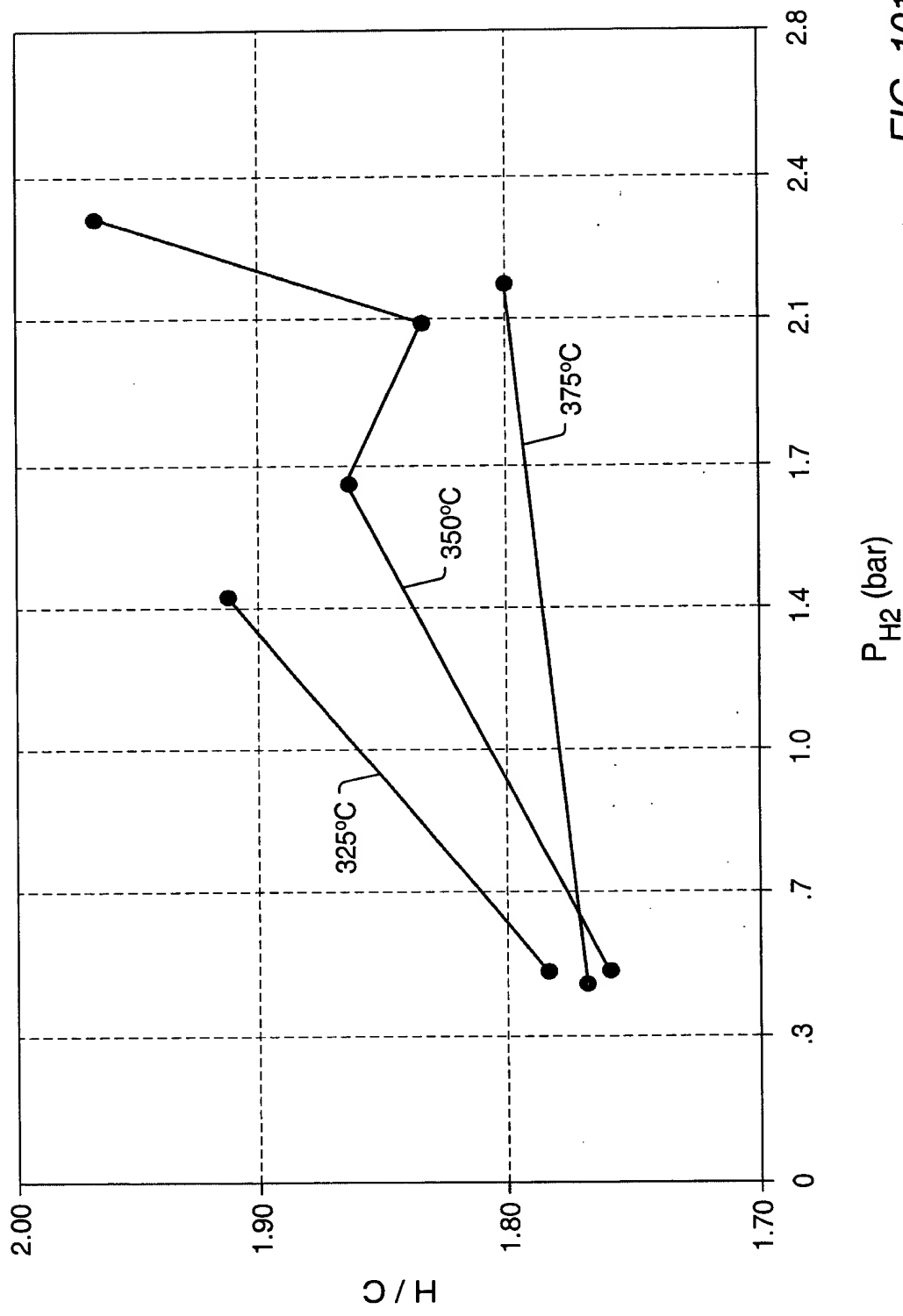


FIG. 101

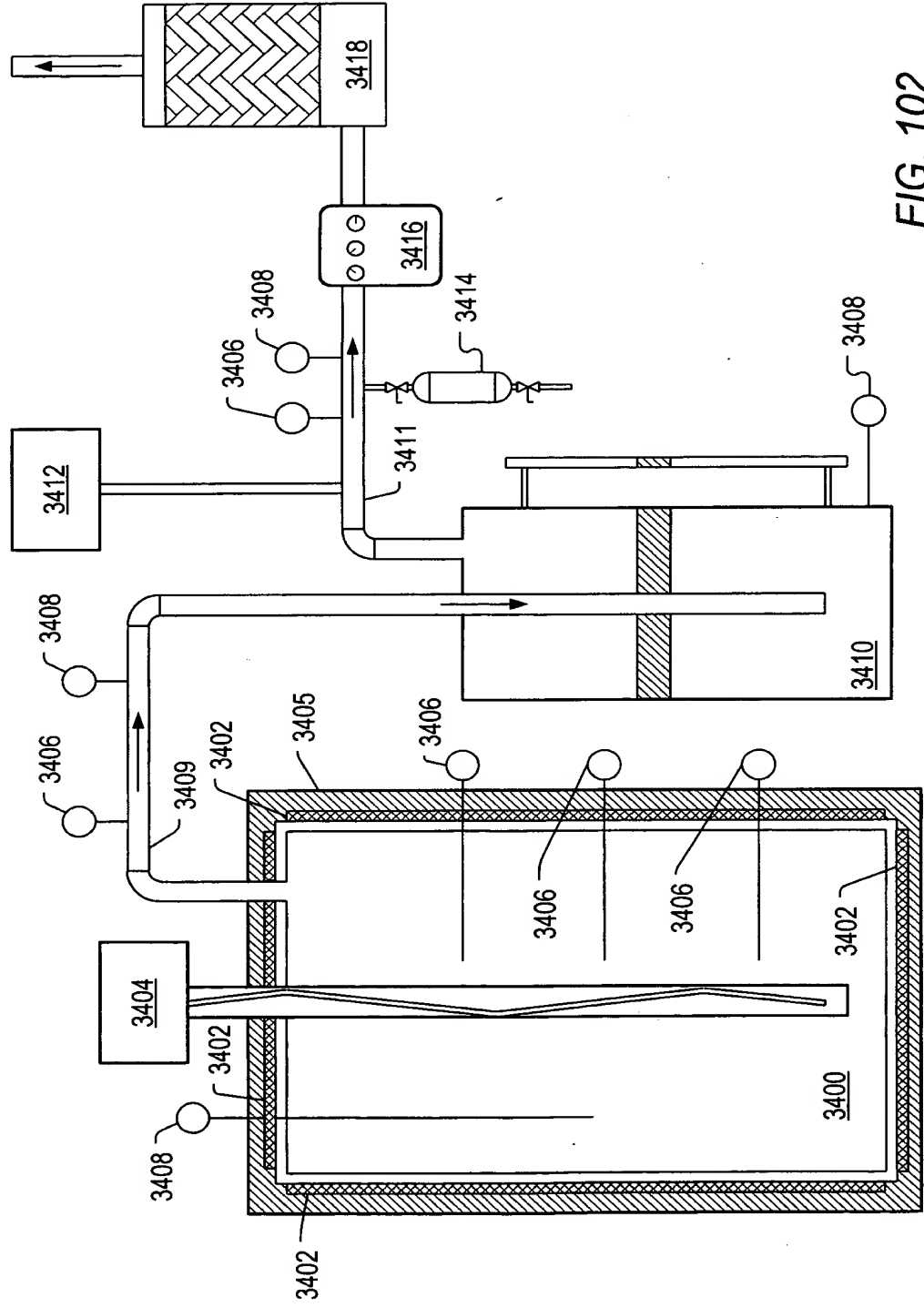


FIG. 102

U.S. GOVERNMENT PRINTING OFFICE: 1964

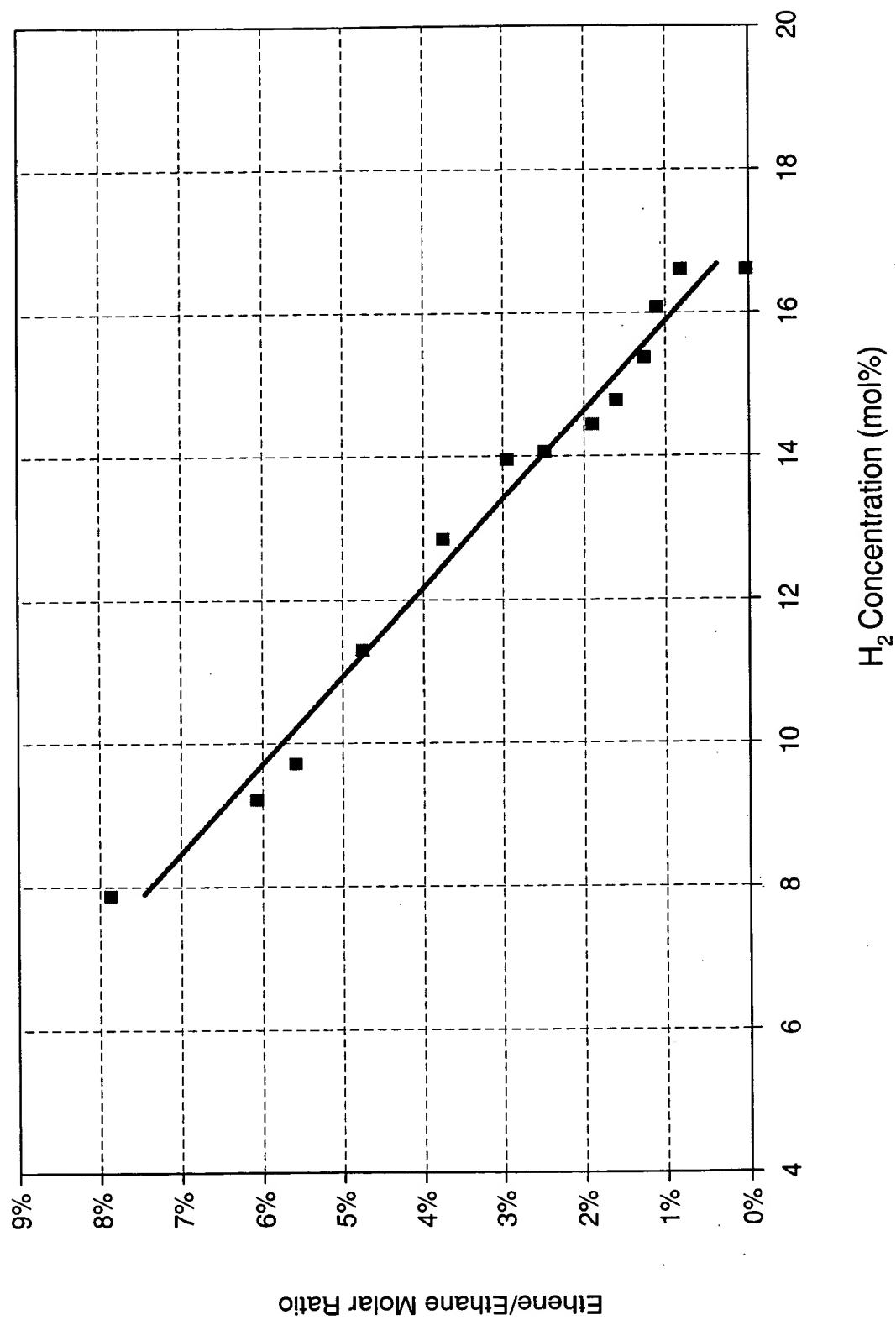
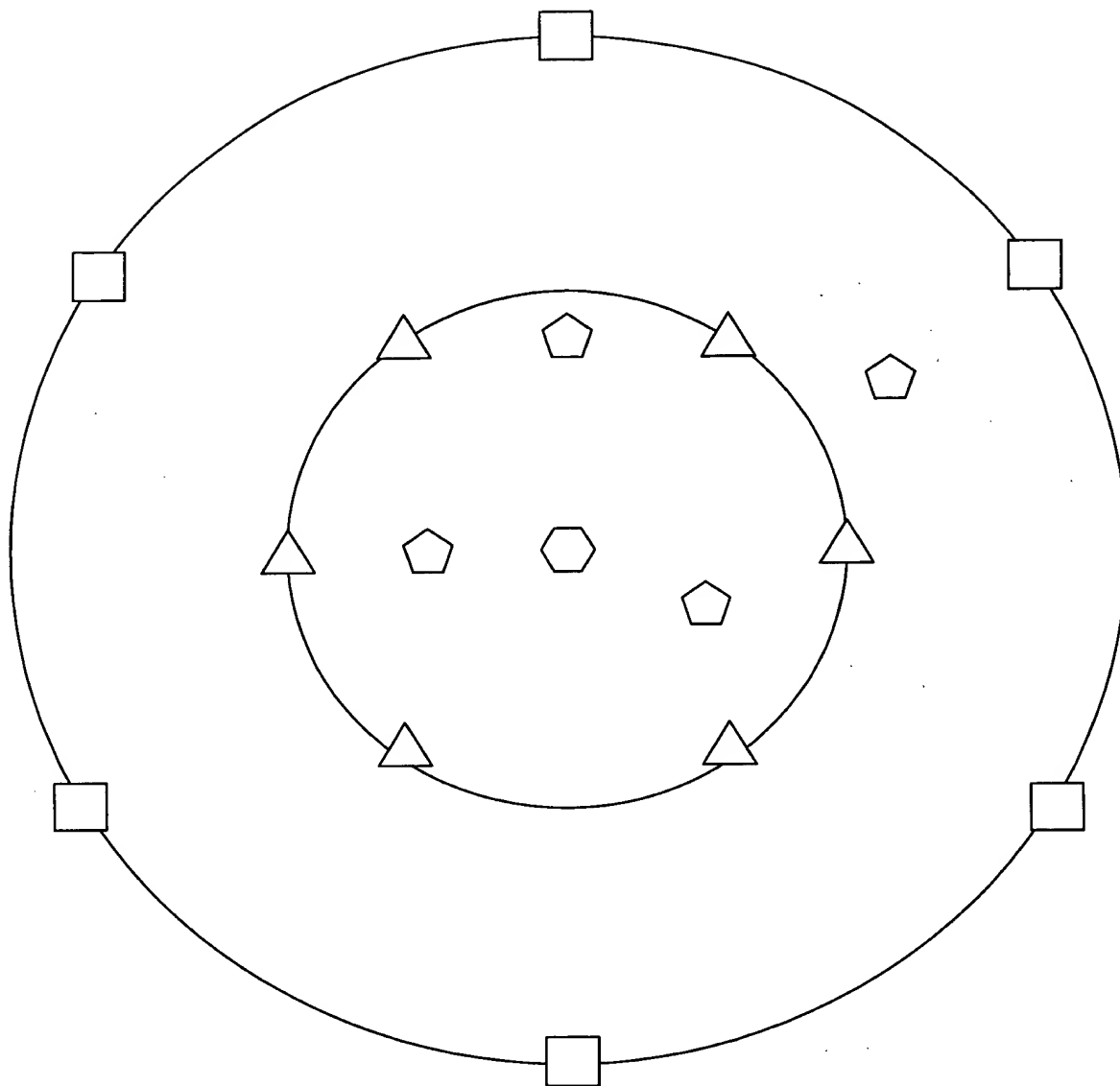


FIG. 103



△ - 3600

⬠ - 3603

□ - 3604

⬡ - 3602

FIG. 104

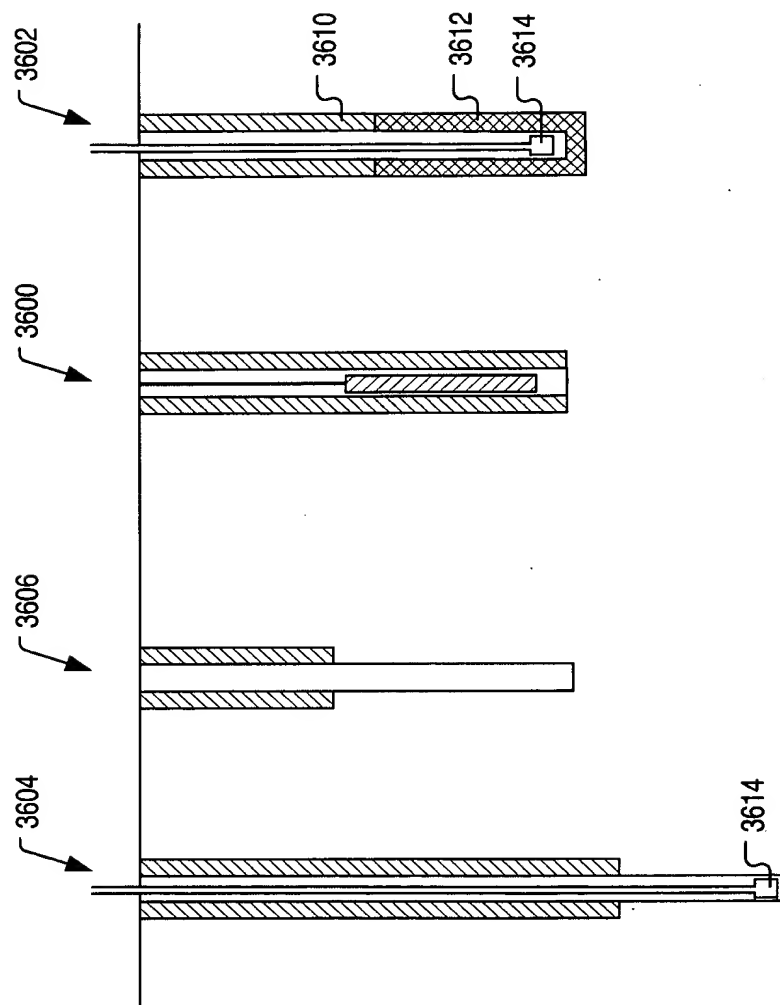


FIG. 105

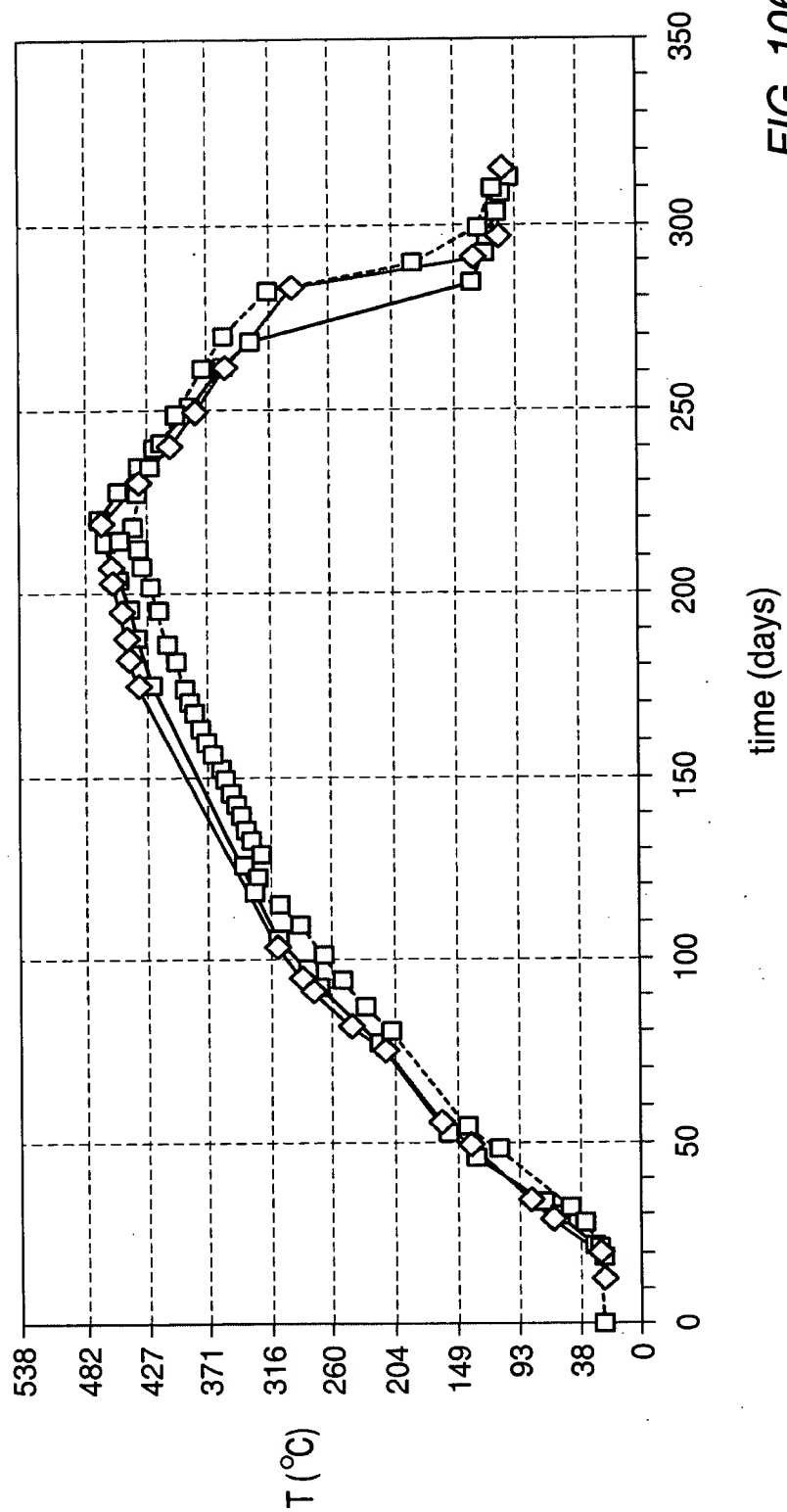


FIG. 106

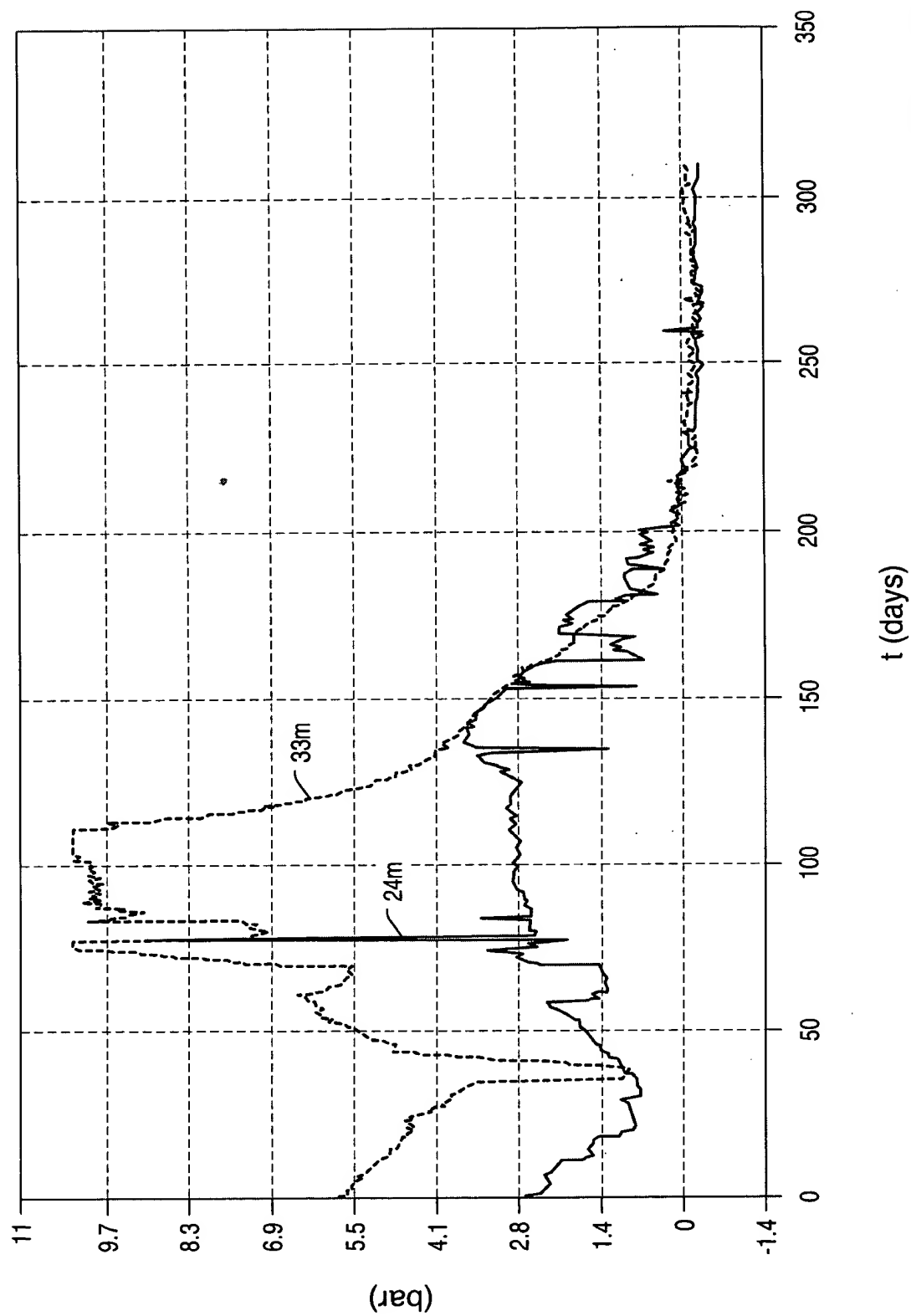


FIG. 107

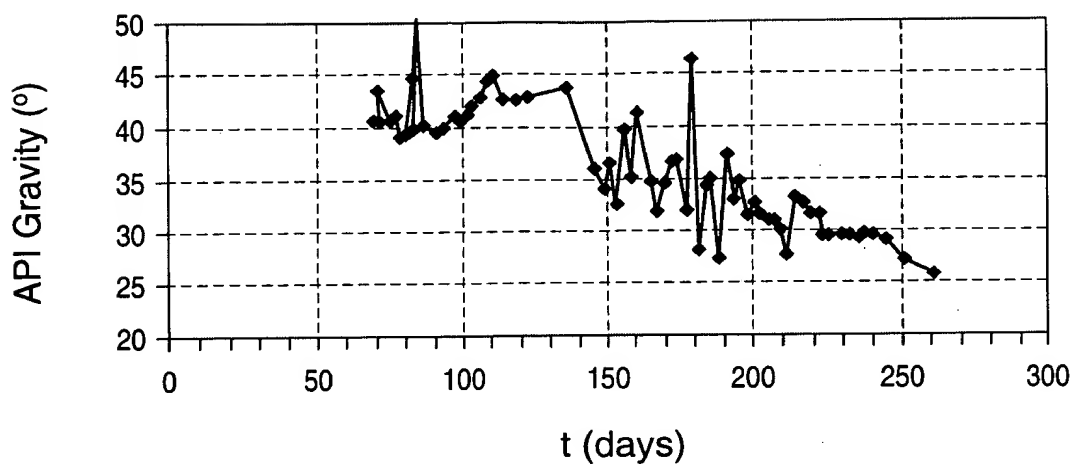


FIG. 108

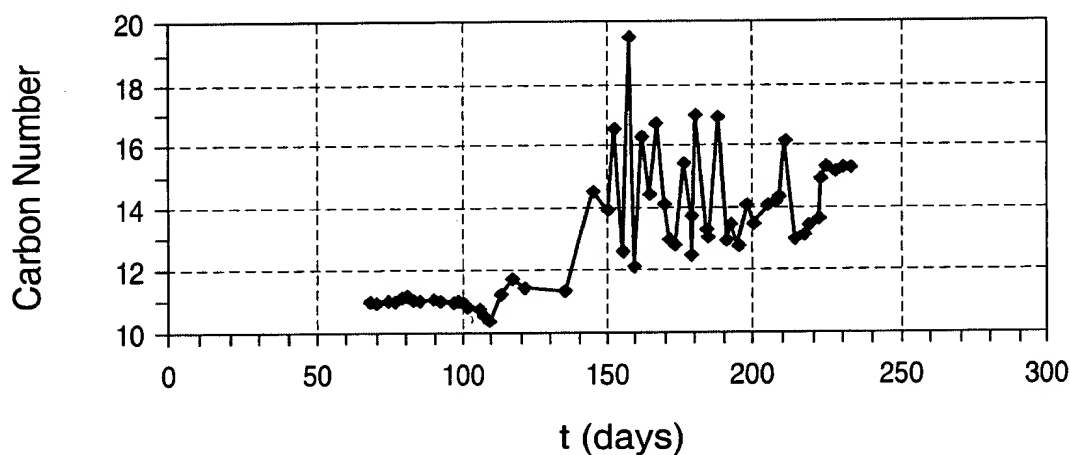


FIG. 109

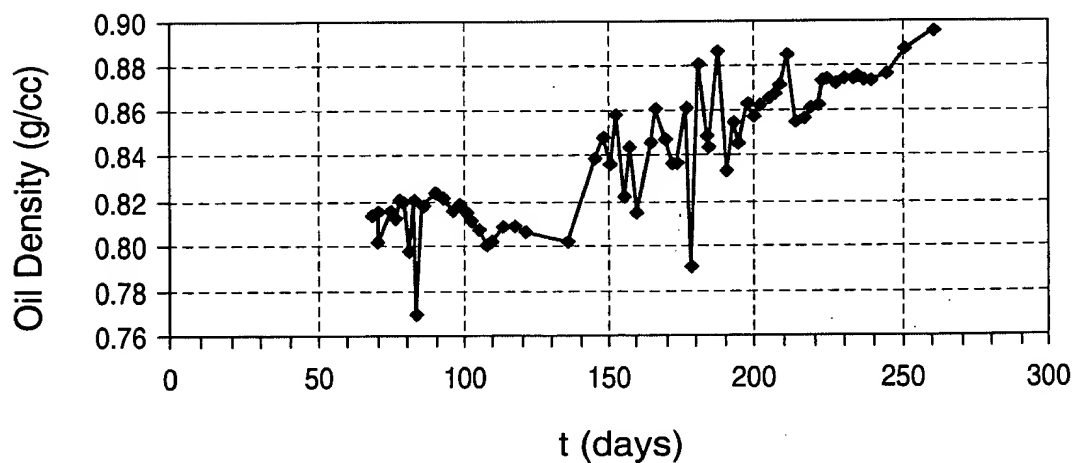


FIG. 110

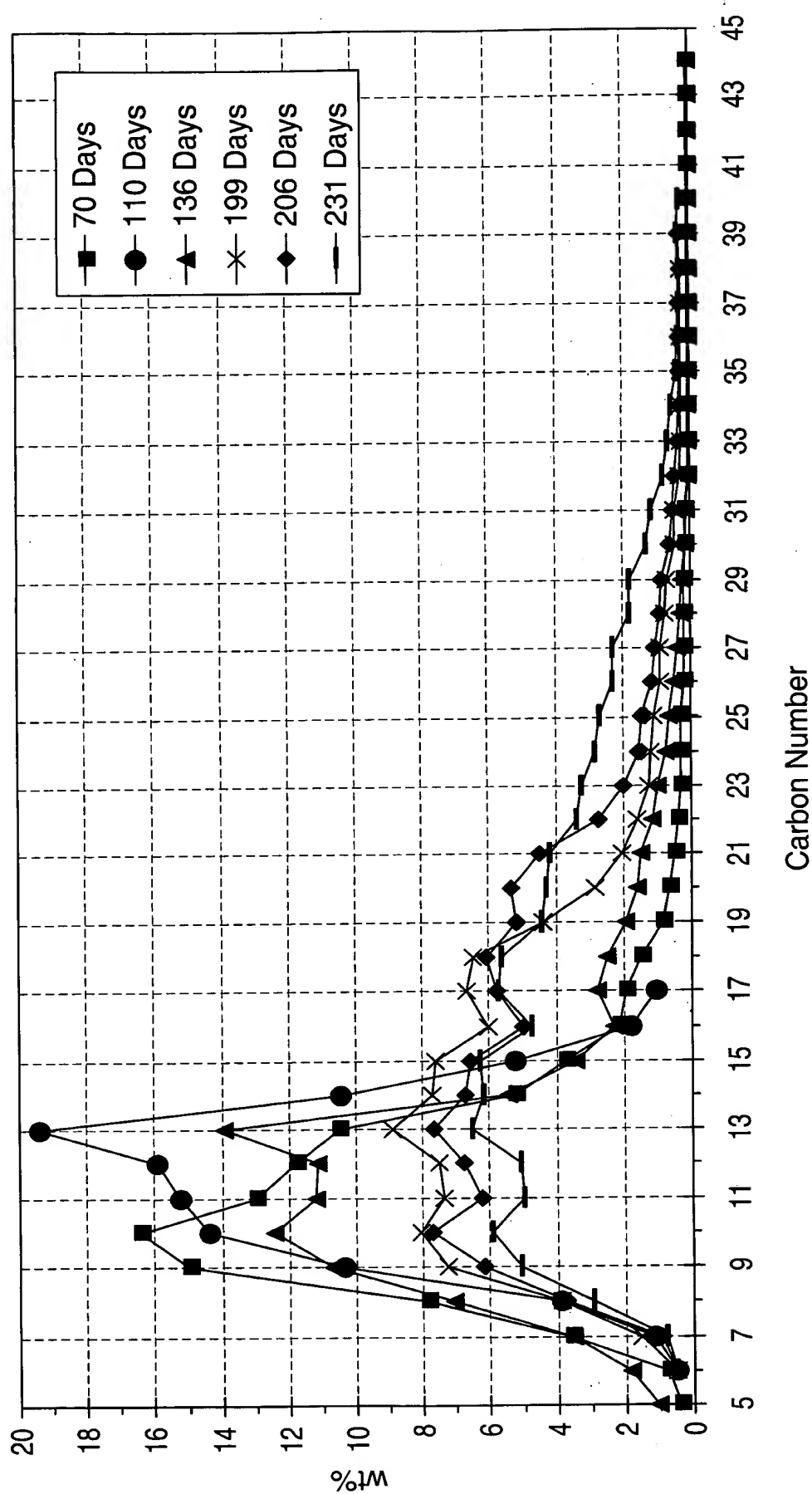


FIG. 111

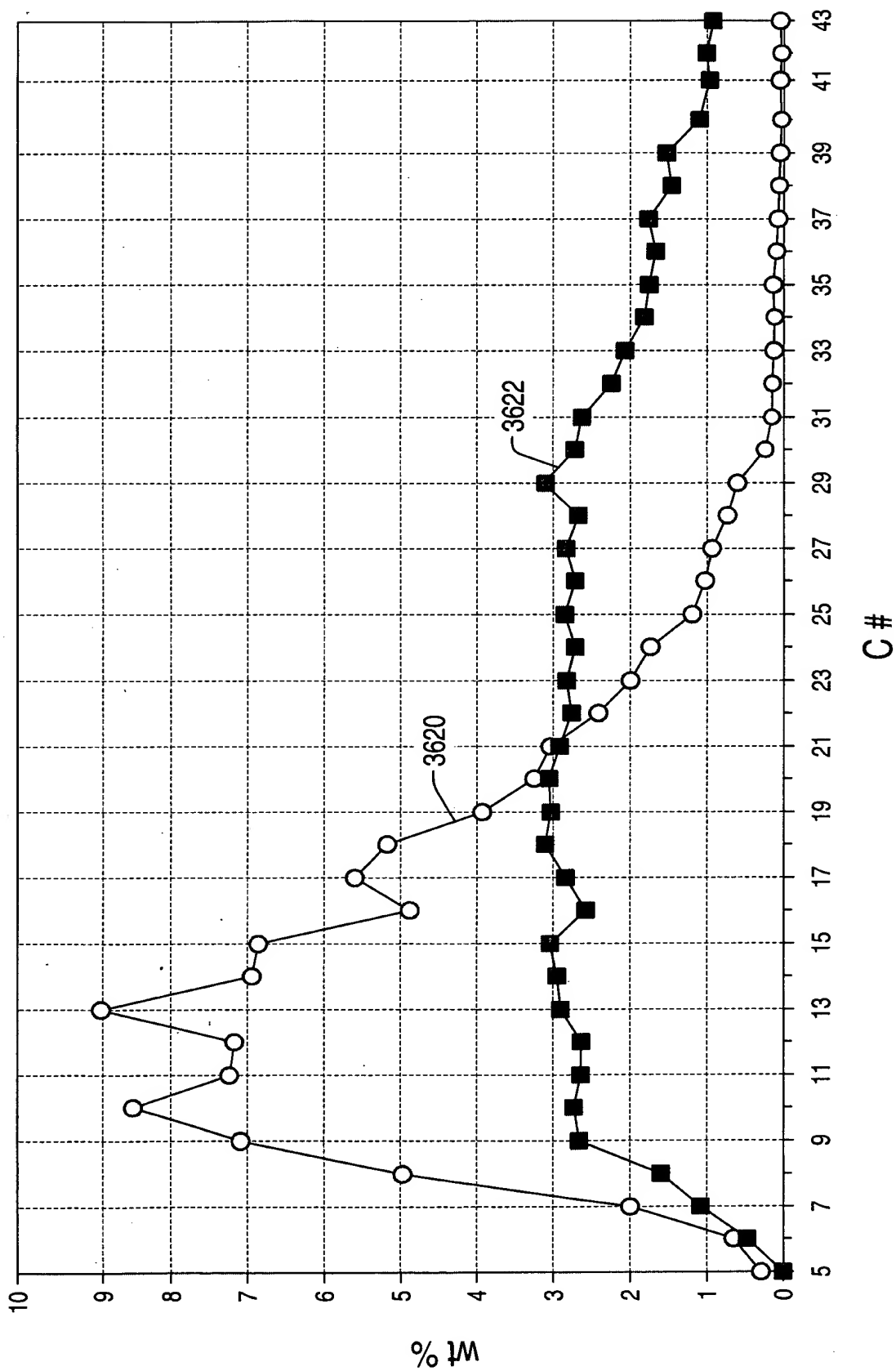


FIG. 112

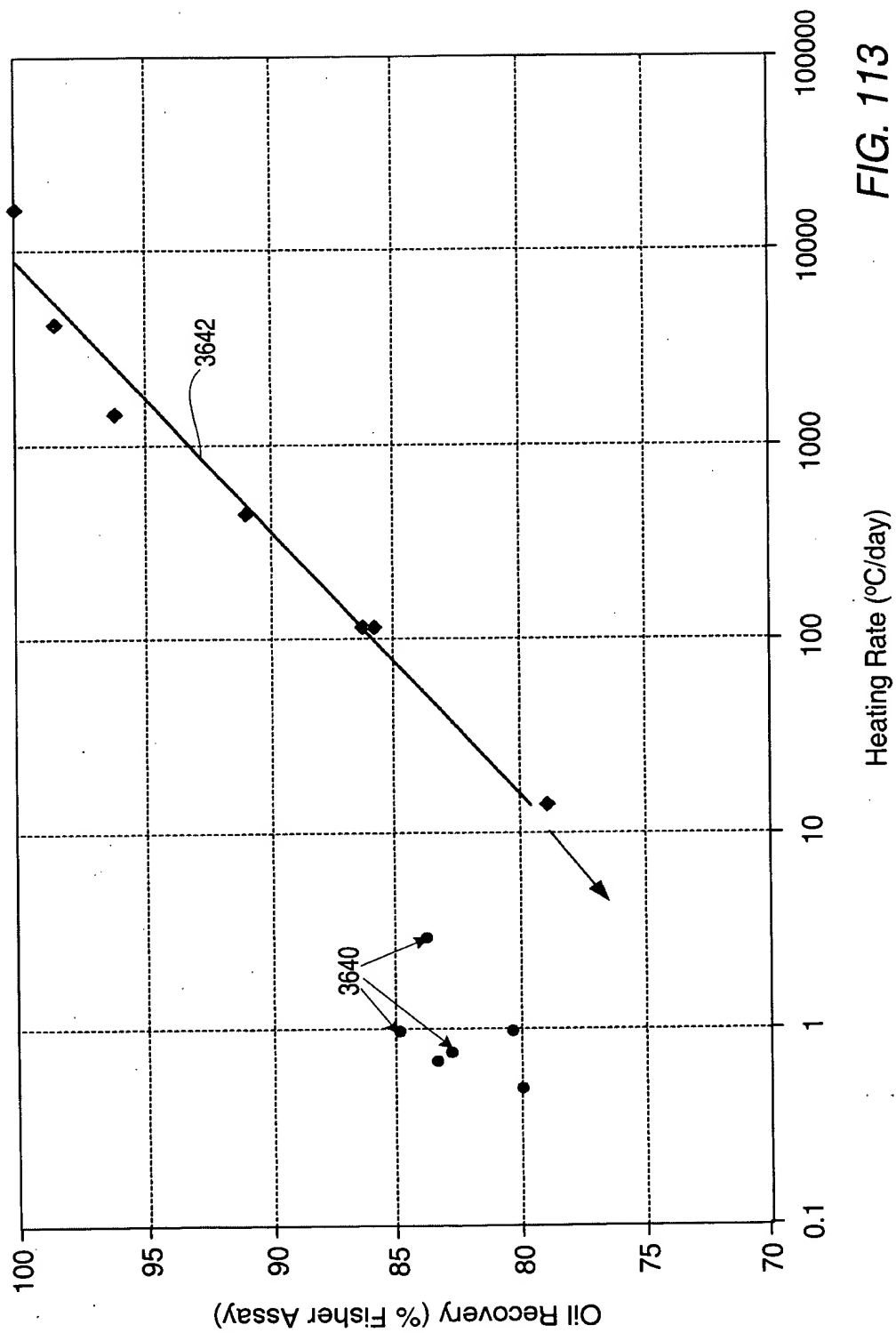


FIG. 113

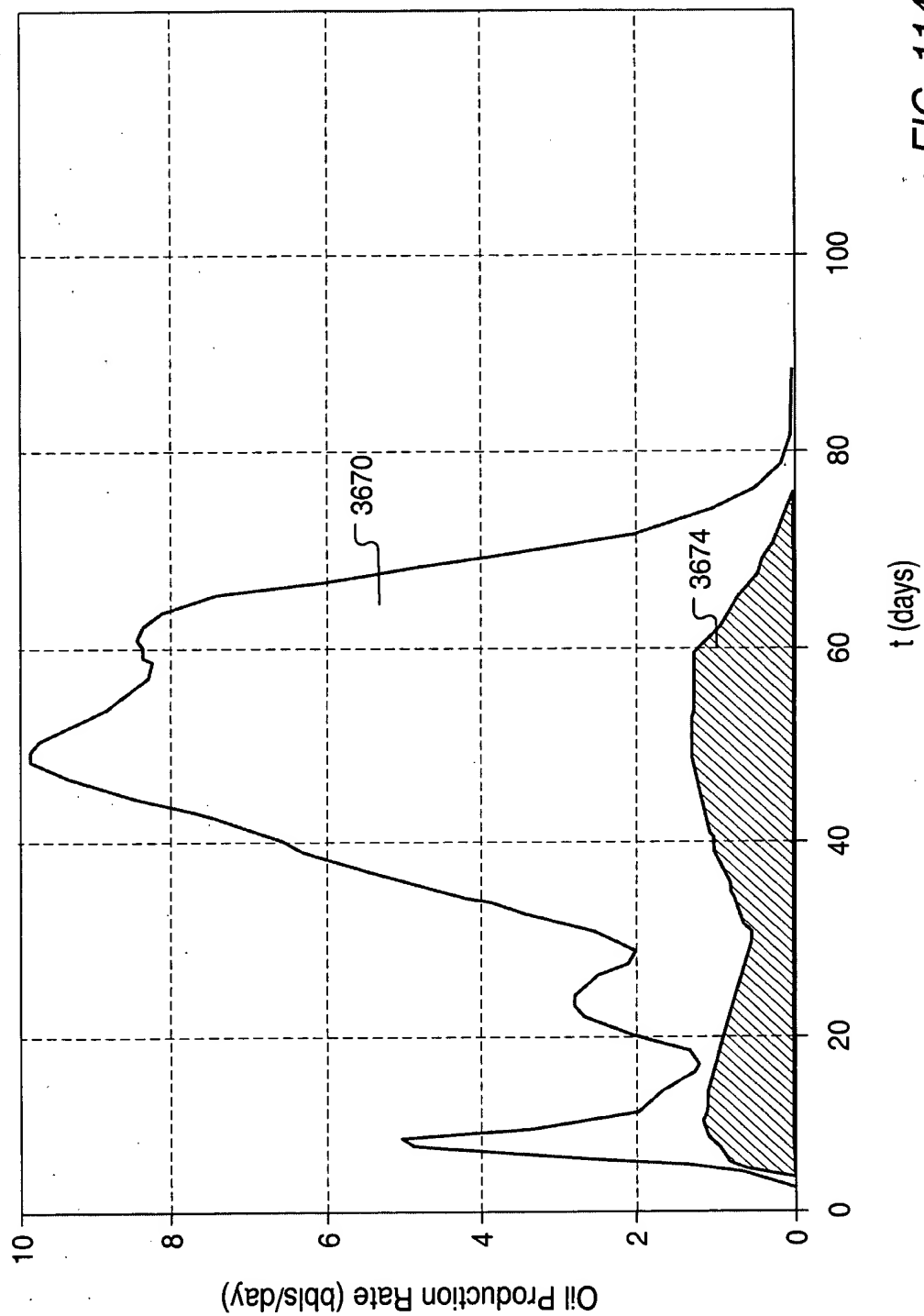


FIG. 114

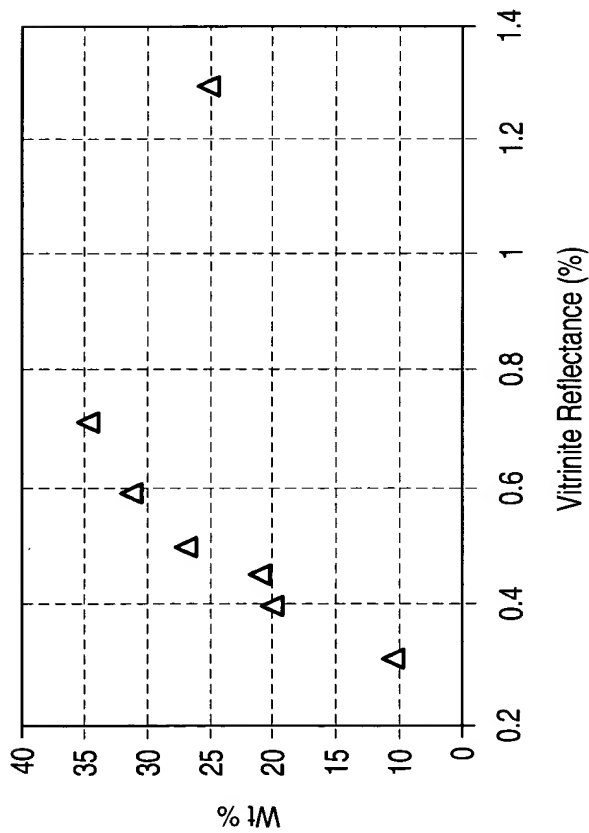


FIG. 115

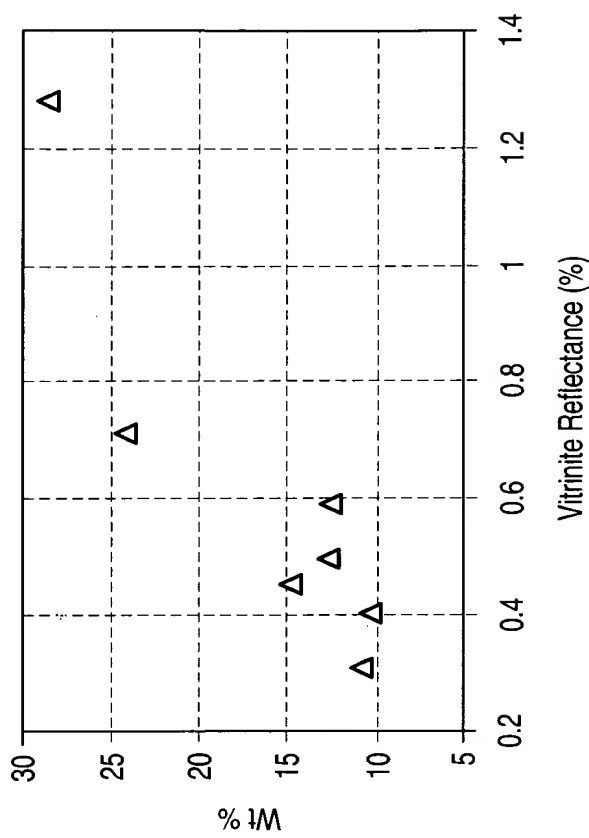


FIG. 116

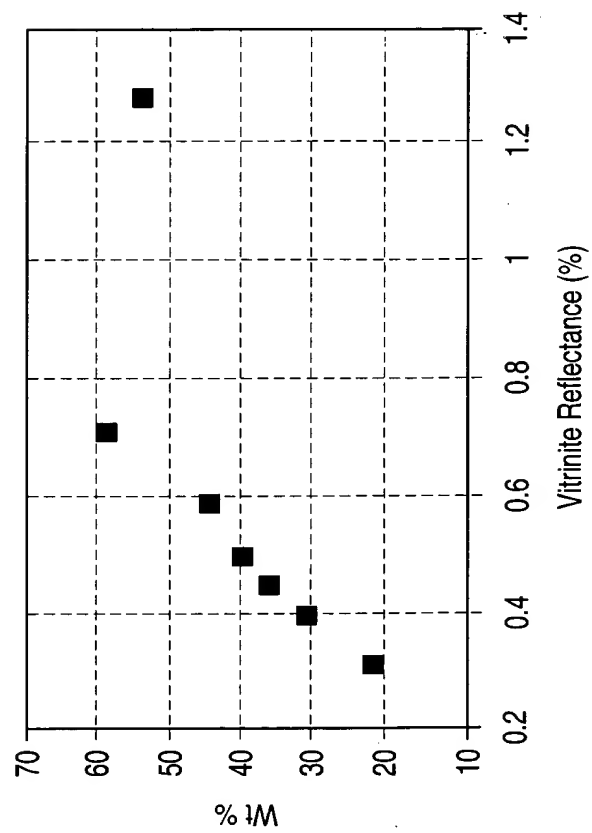


FIG. 117

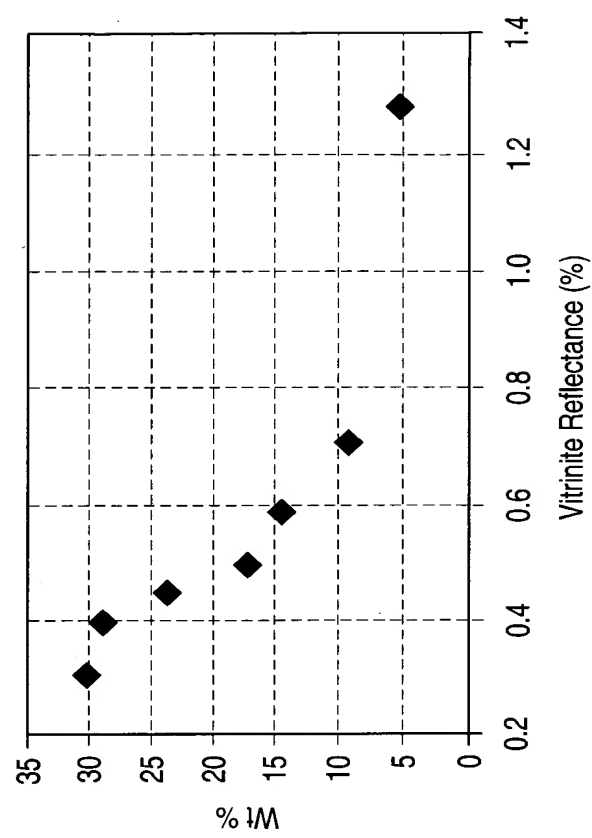


FIG. 118

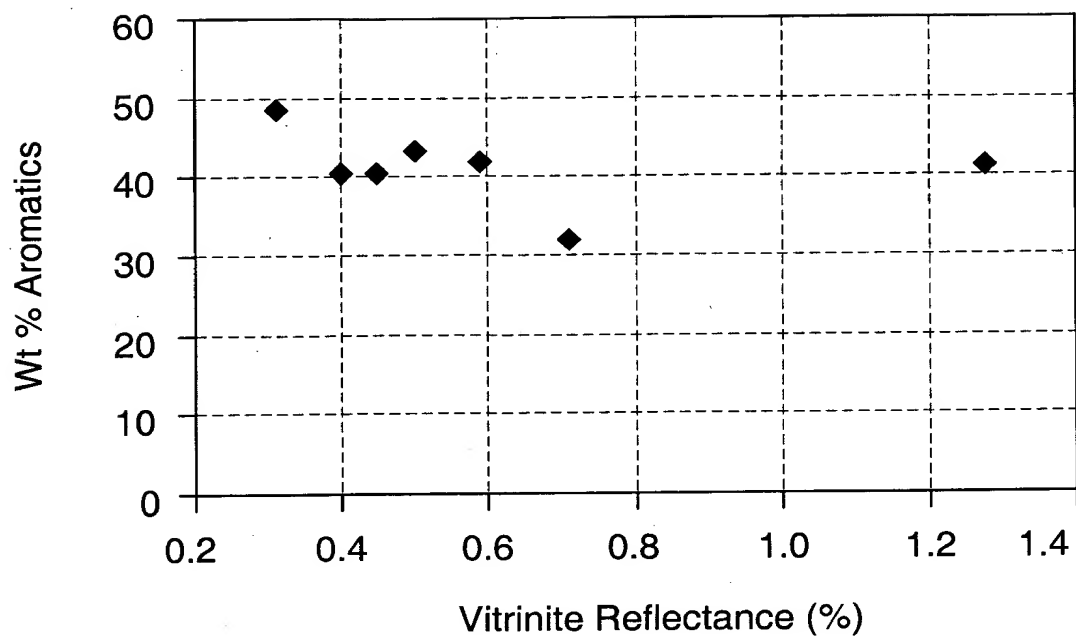


FIG. 119

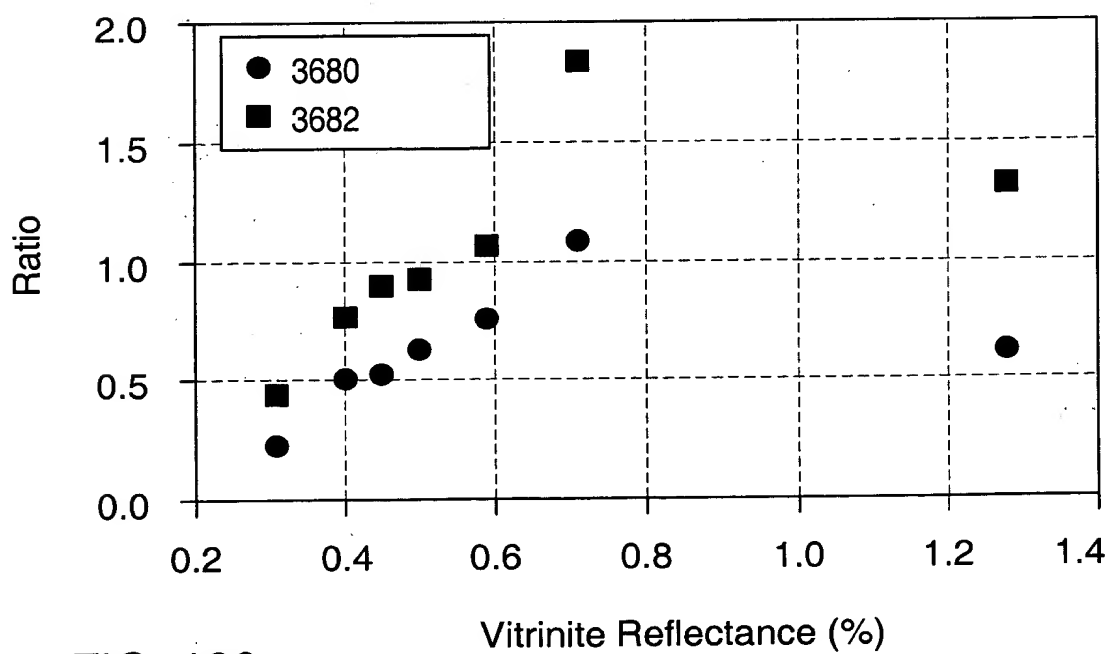
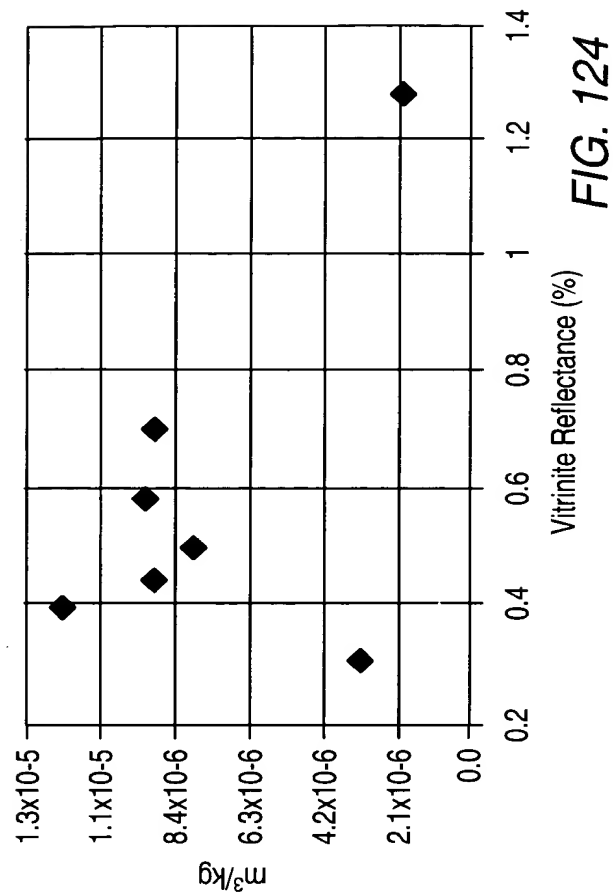
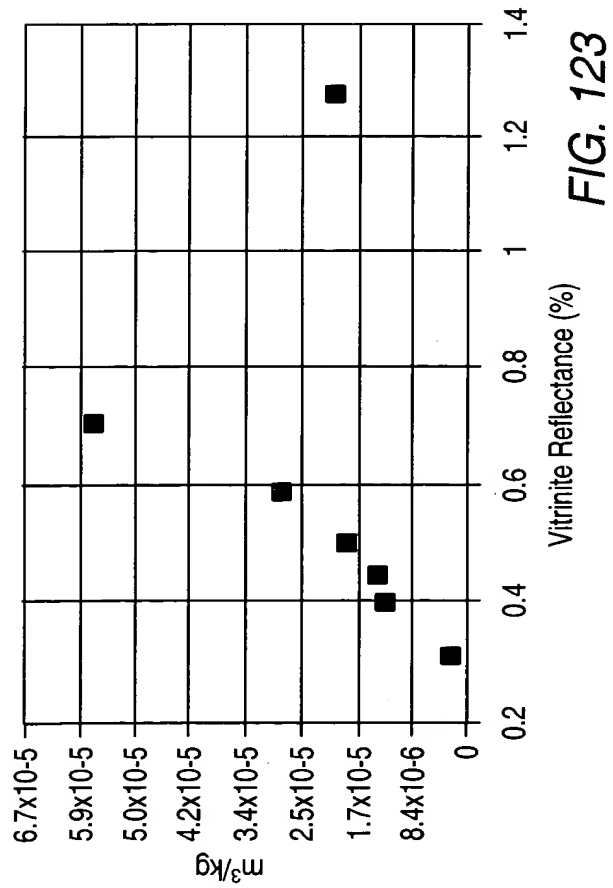
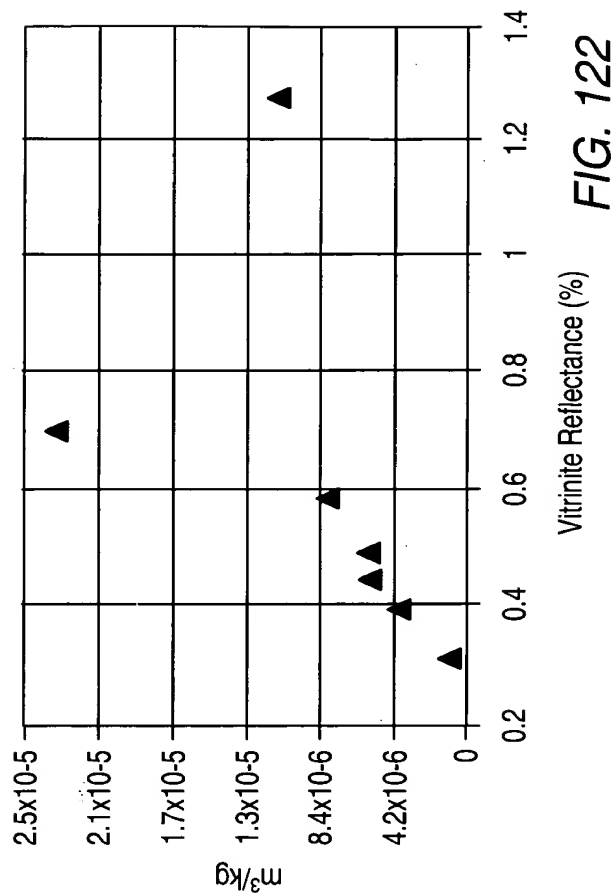
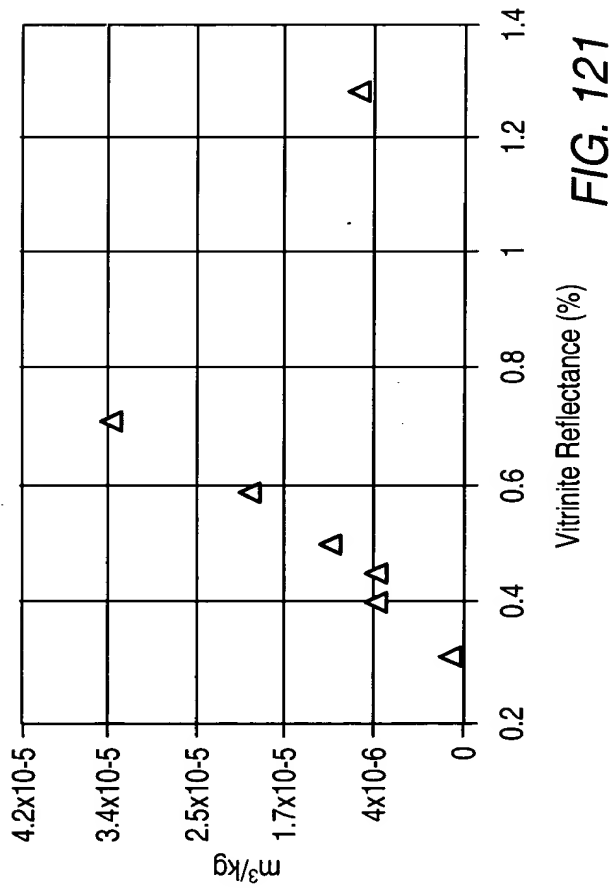


FIG. 120



U.S. GEOLOGICAL SURVEY
BULLETIN 1452-A
WASHINGTON, D.C. 20509

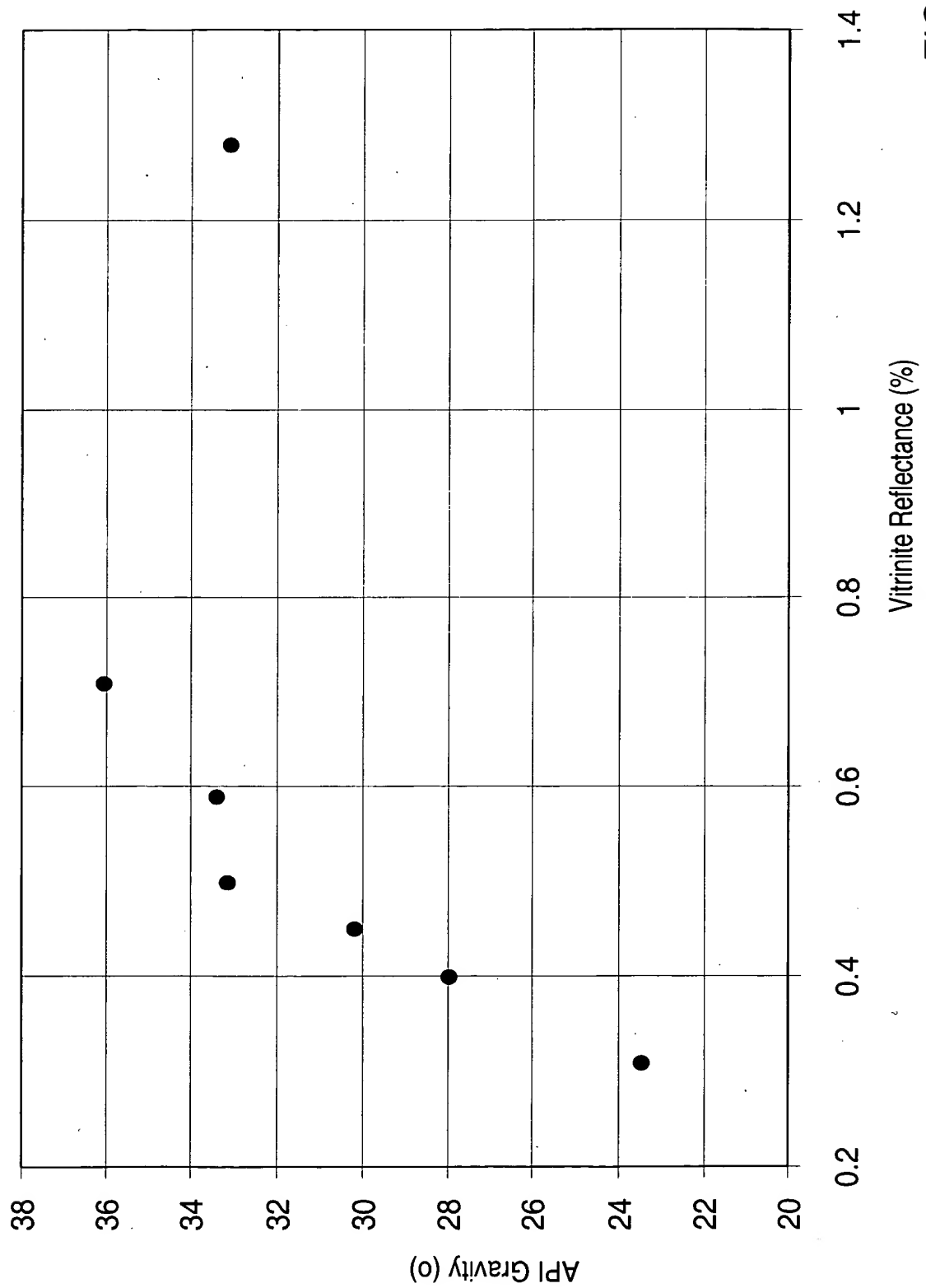
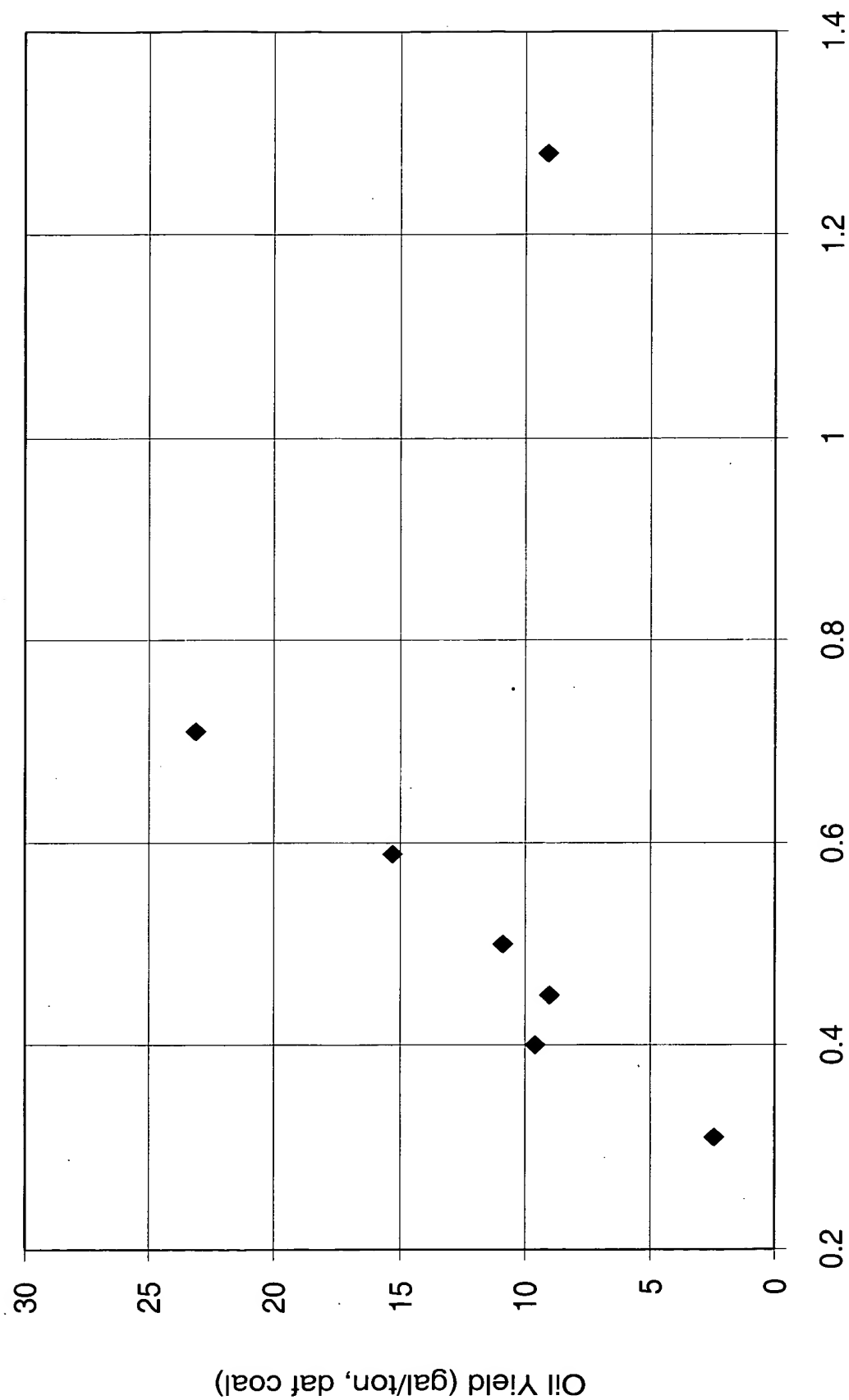


FIG. 125

U.S. GEOLOGICAL SURVEY
BULLETIN 1452-A
1982



Vitrinite Reflectance (%)

FIG. 126

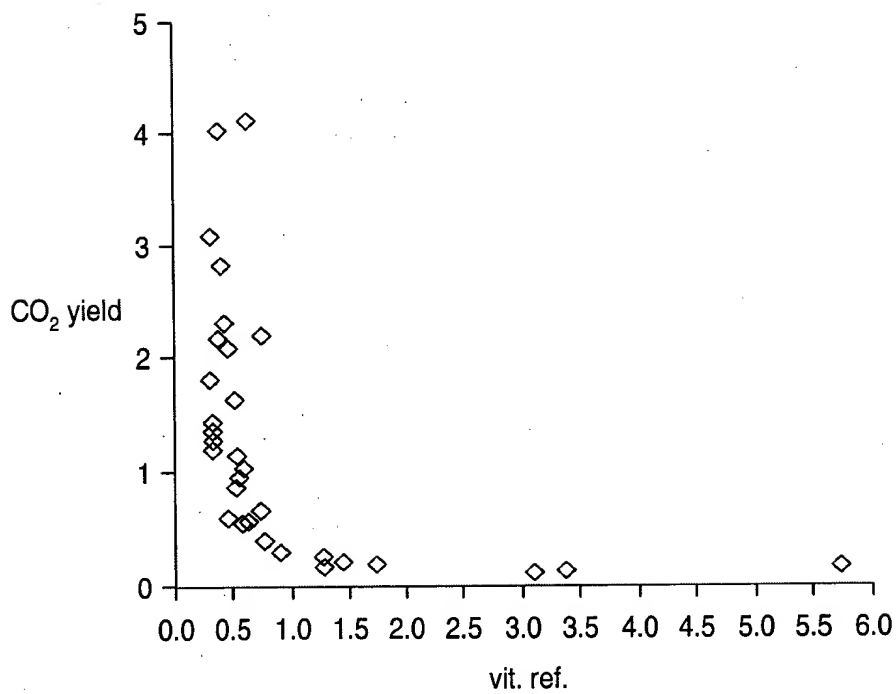


FIG. 127

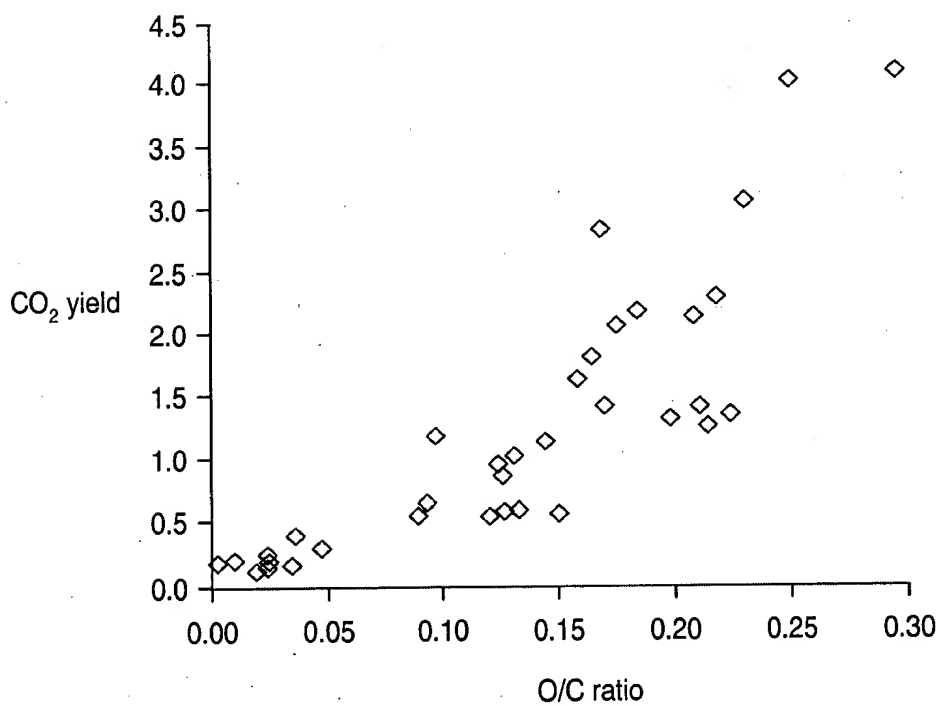


FIG. 128

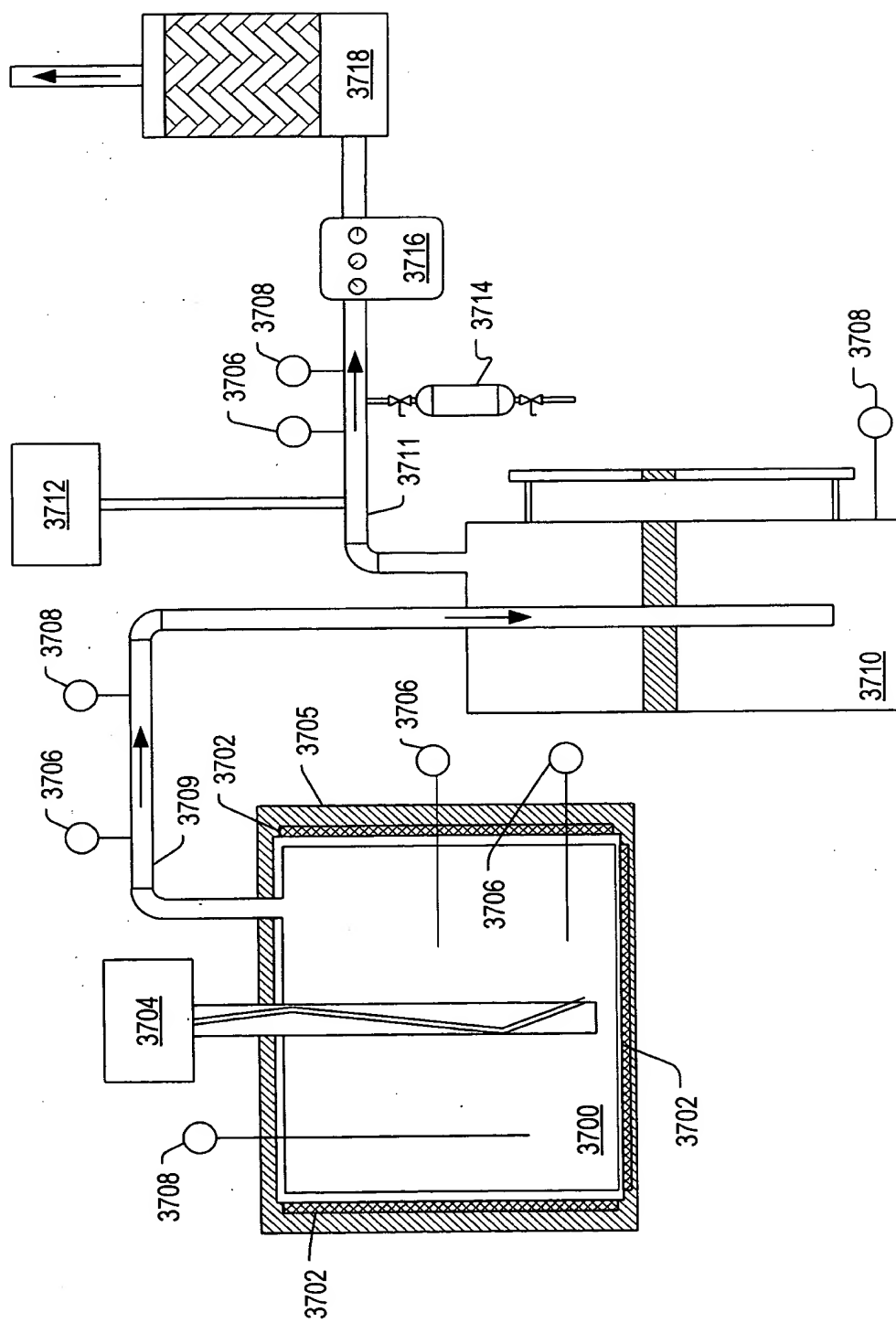


FIG. 129

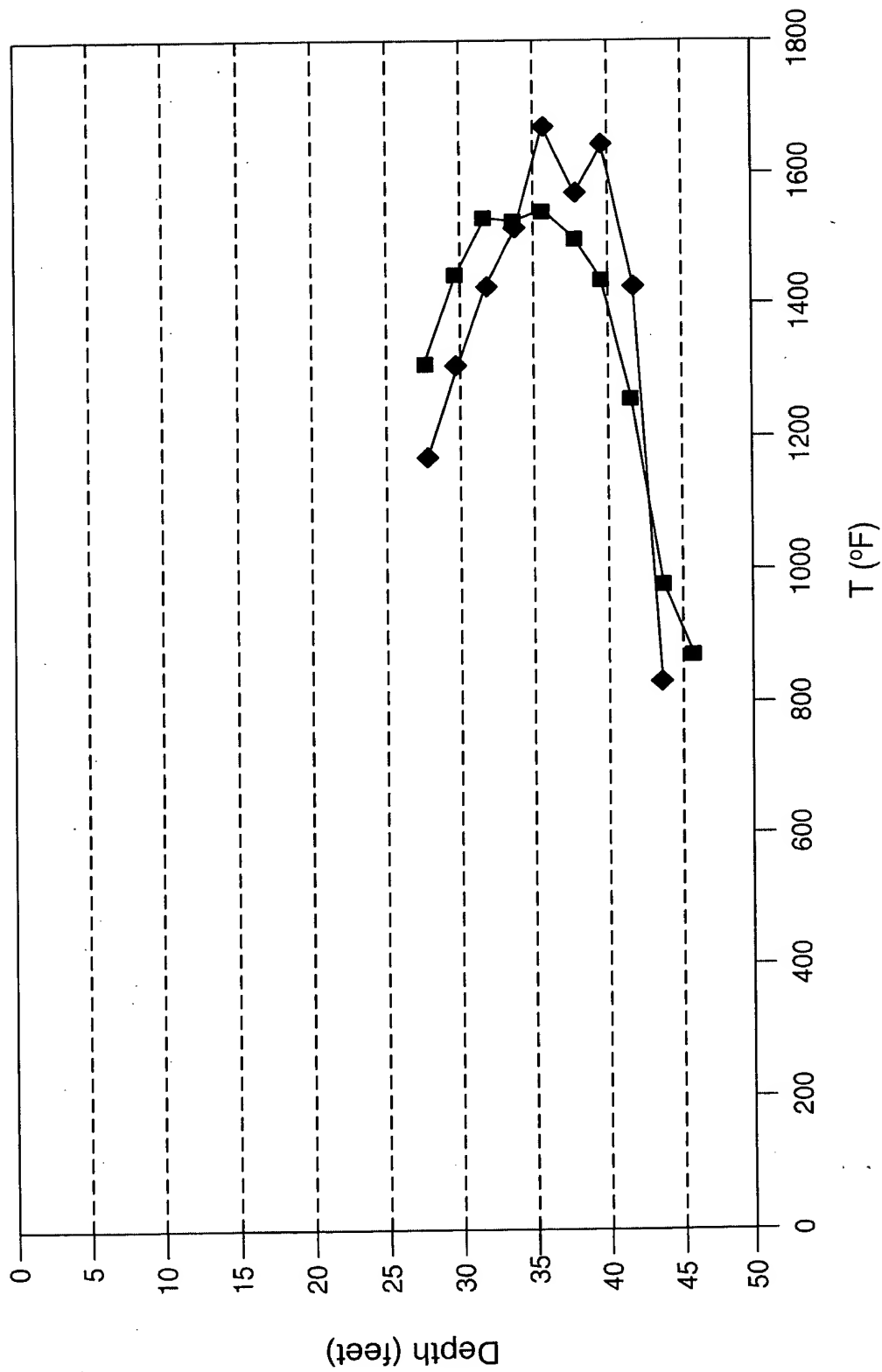


FIG. 130

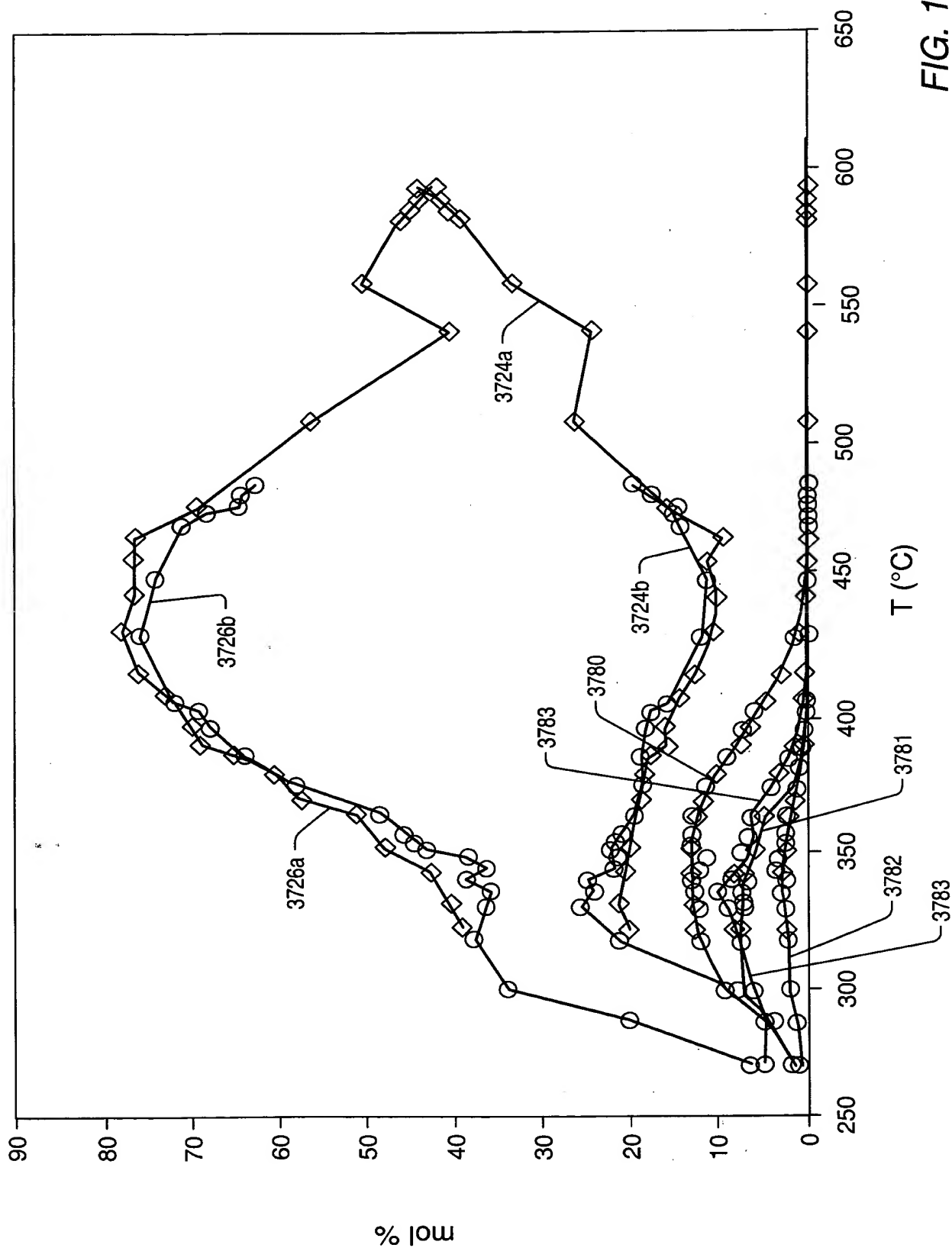


FIG. 131

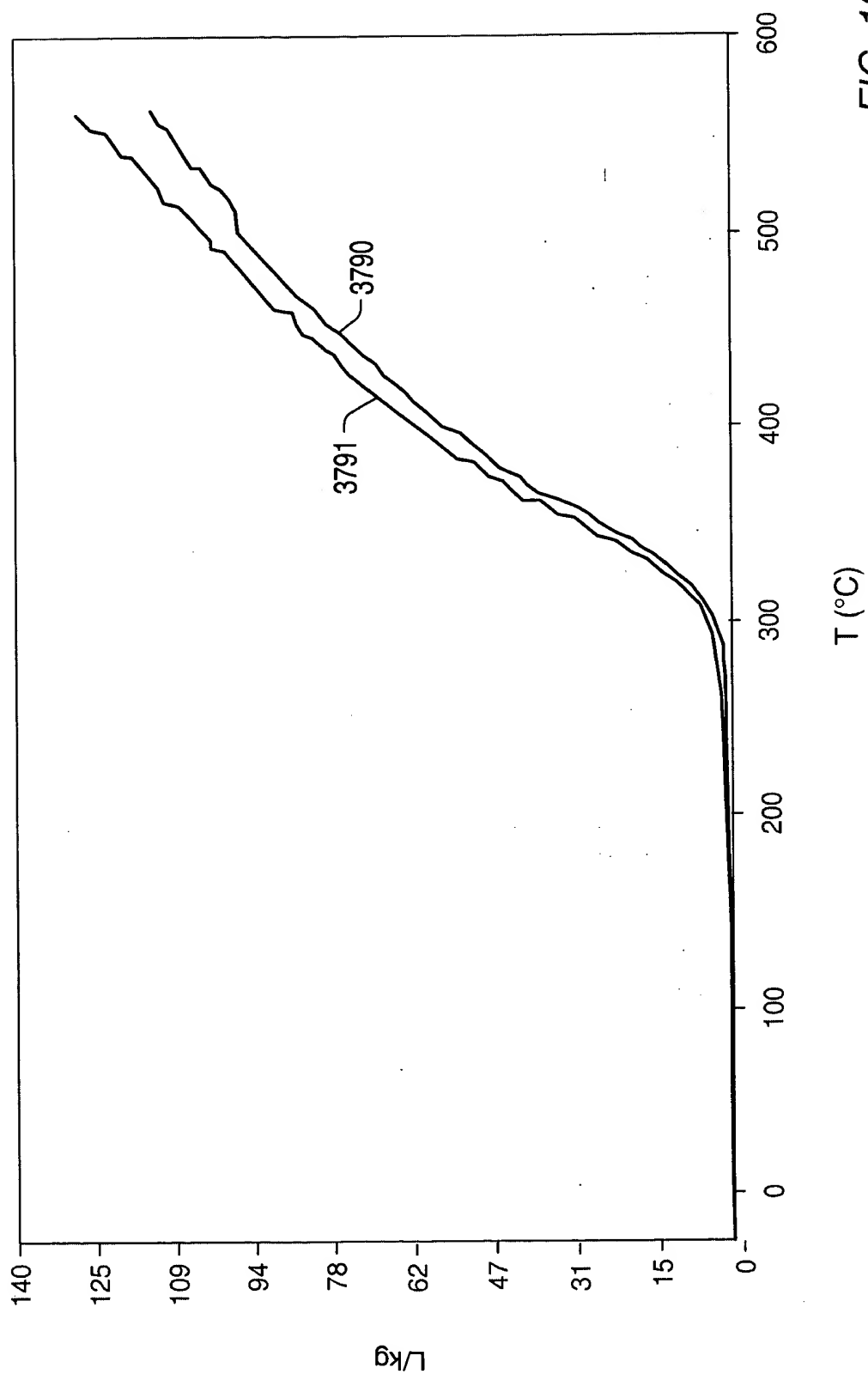


FIG. 132

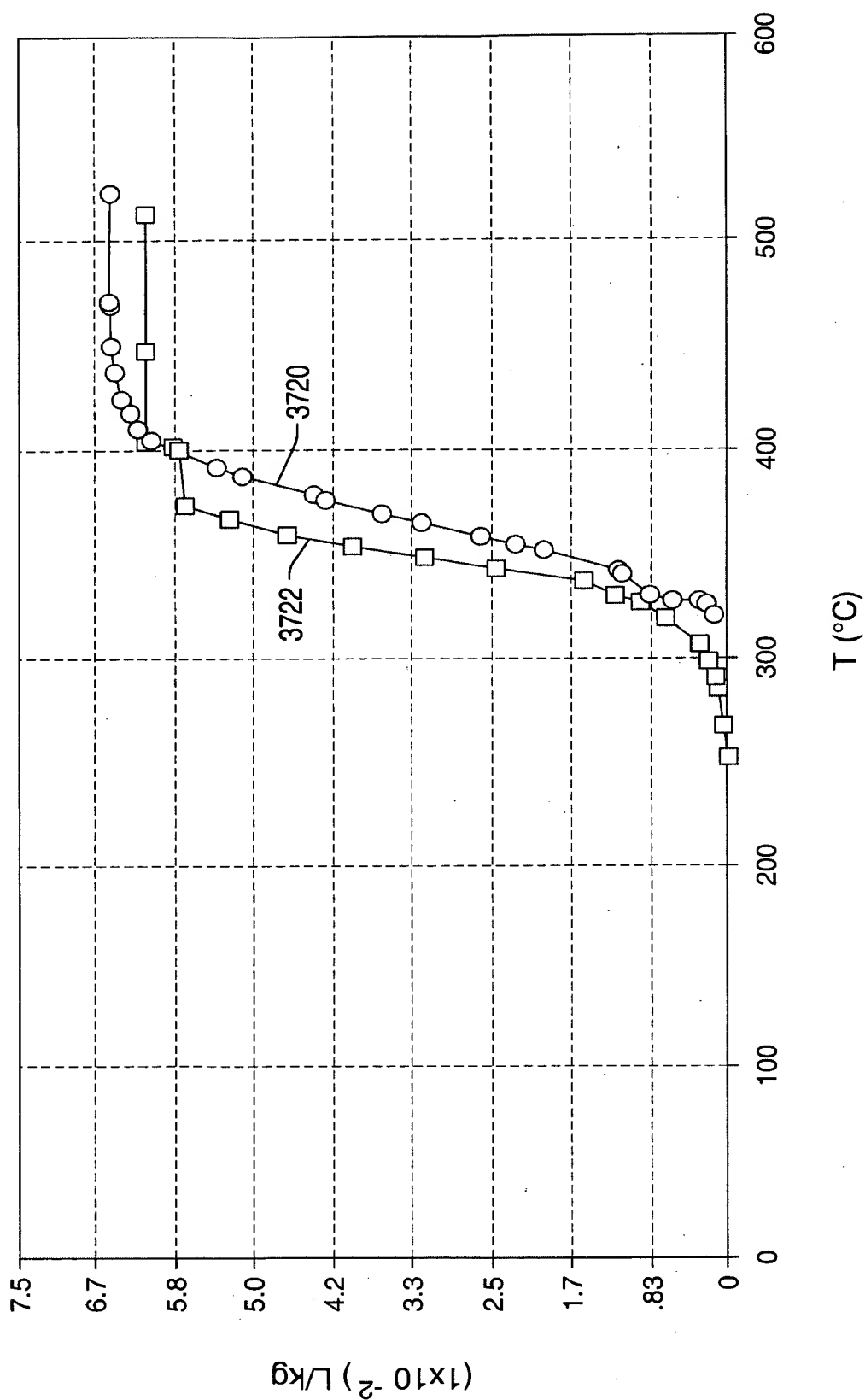


FIG. 133

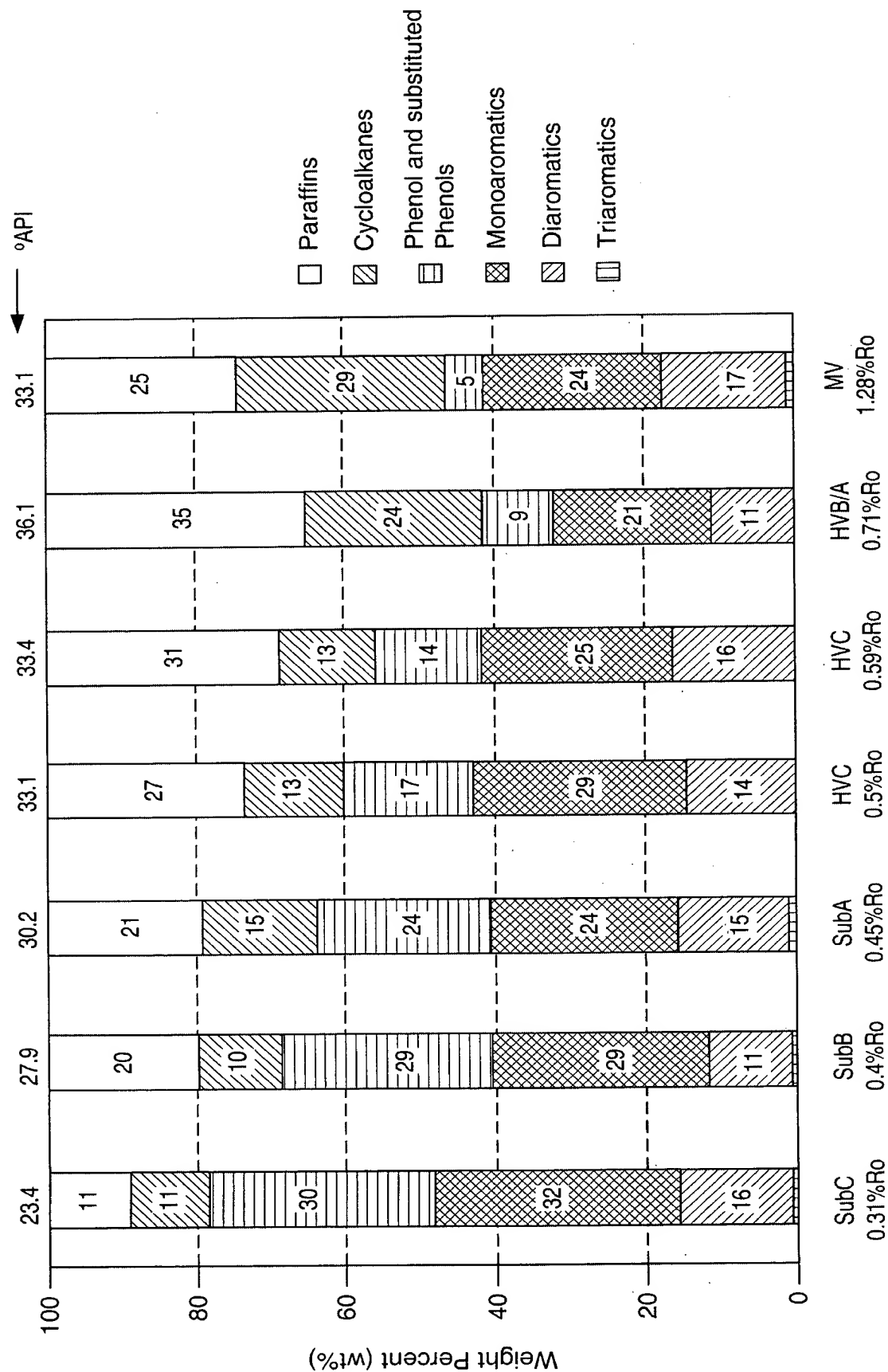


FIG. 134

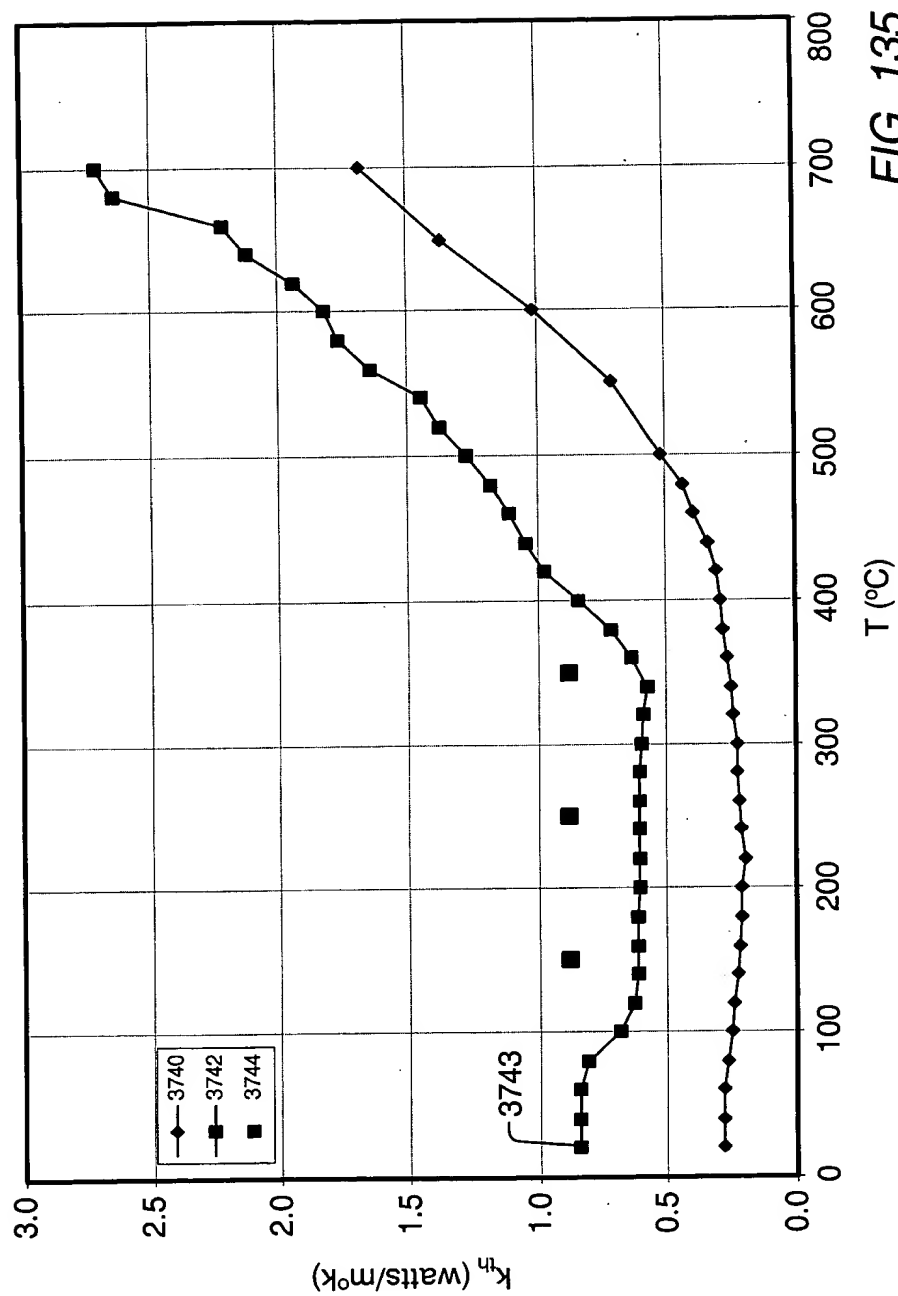


FIG. 135

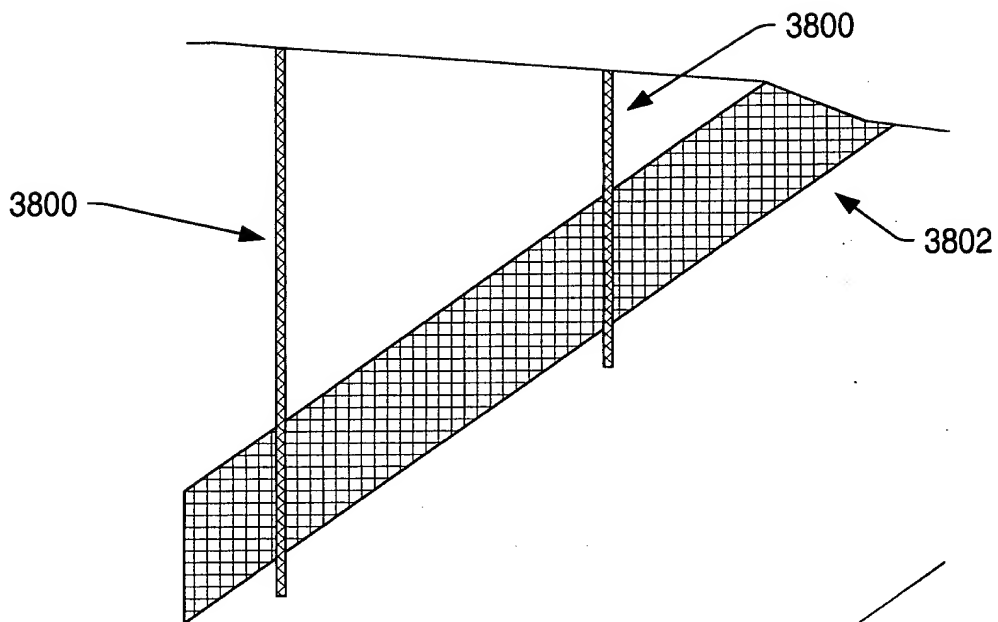


FIG. 136

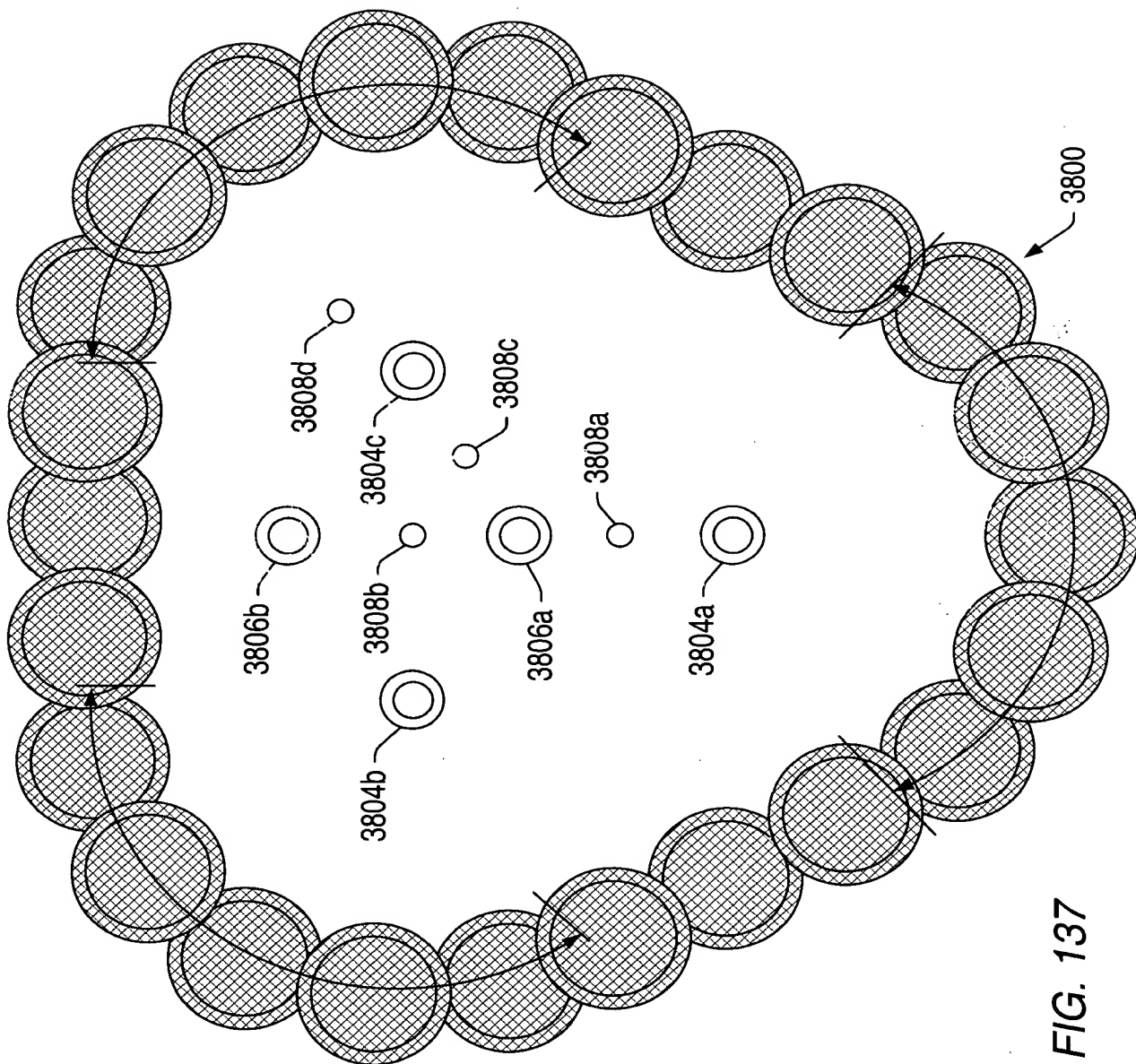


FIG. 137

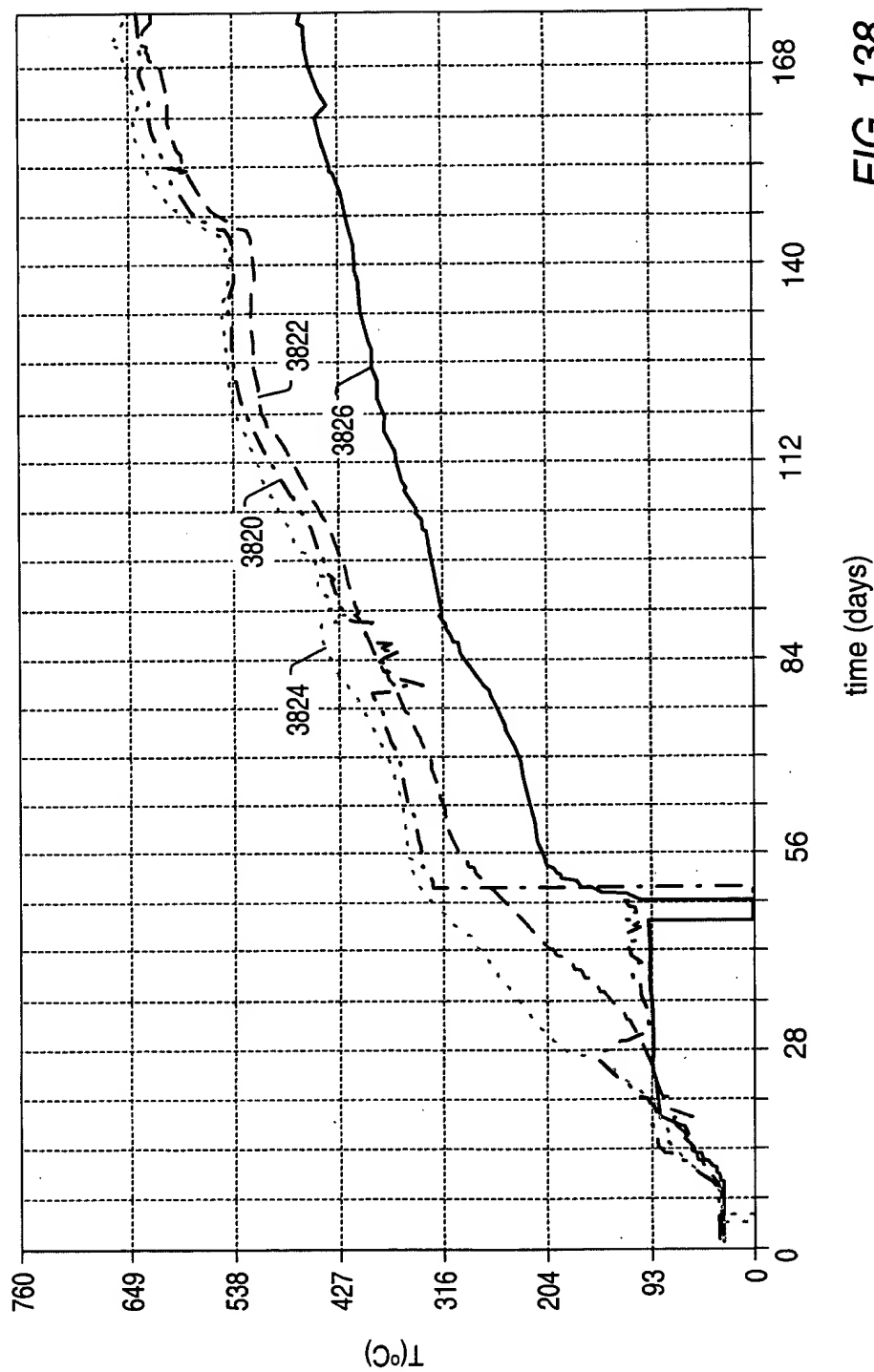


FIG. 138

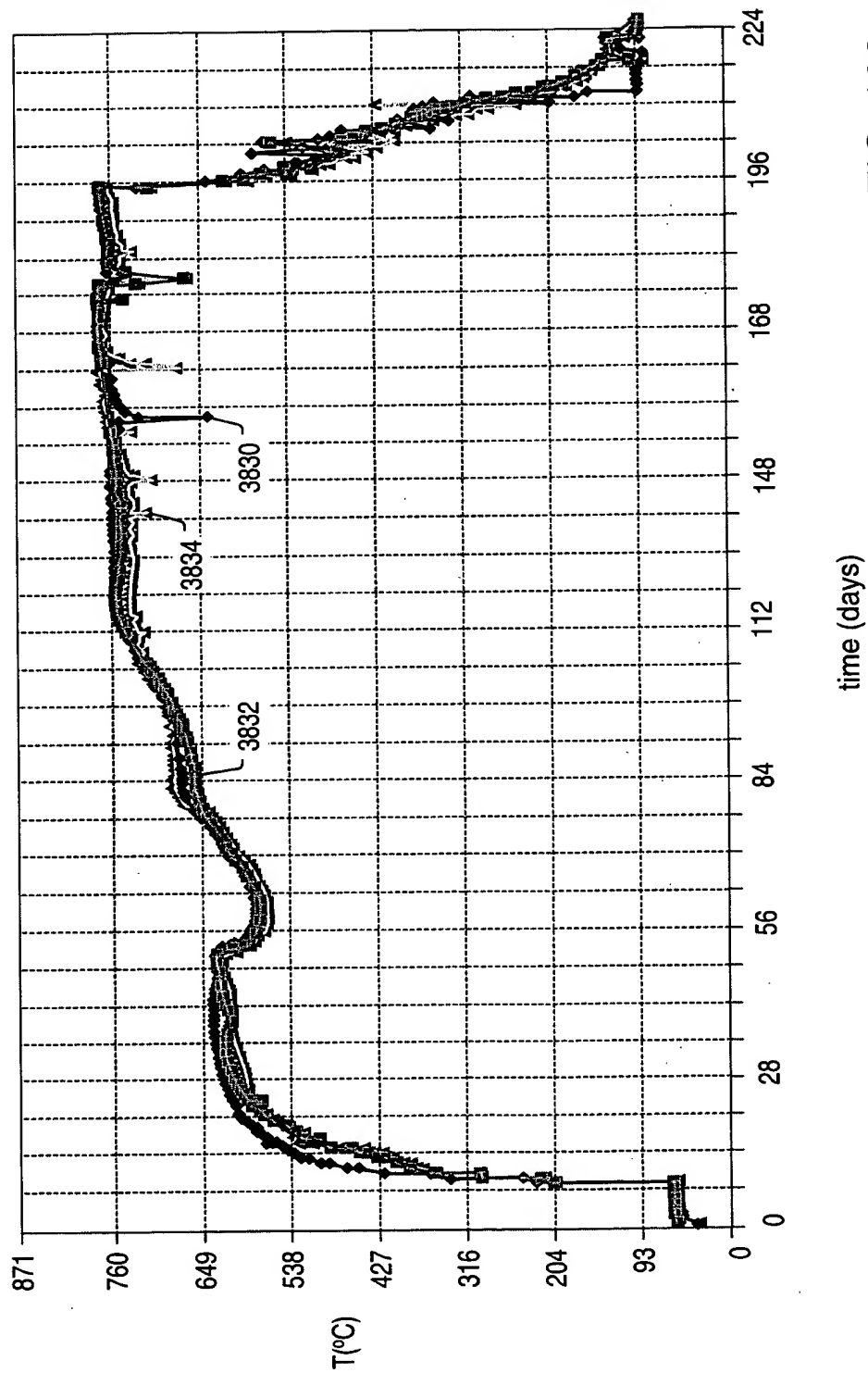


FIG. 139

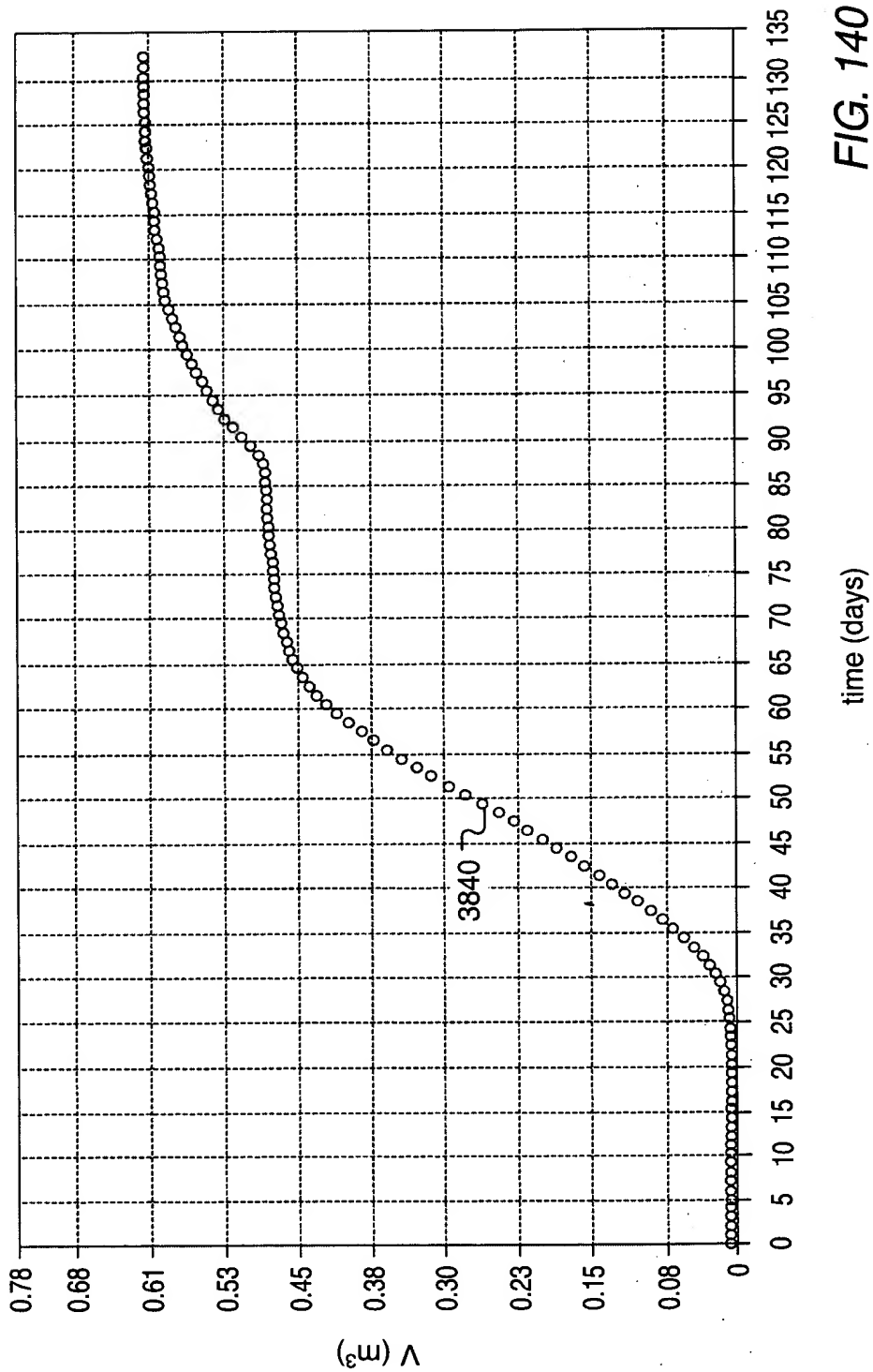
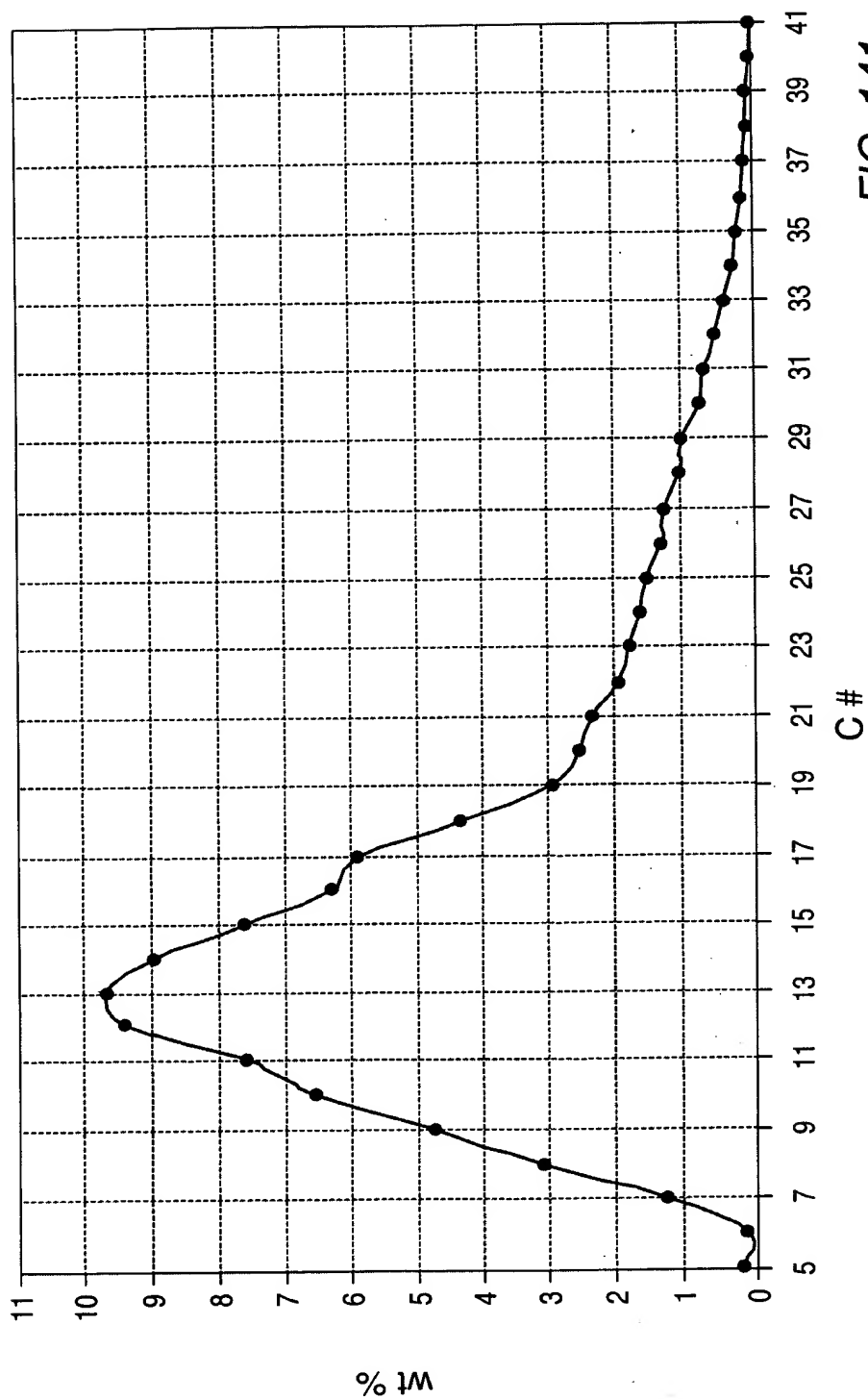


FIG. 140



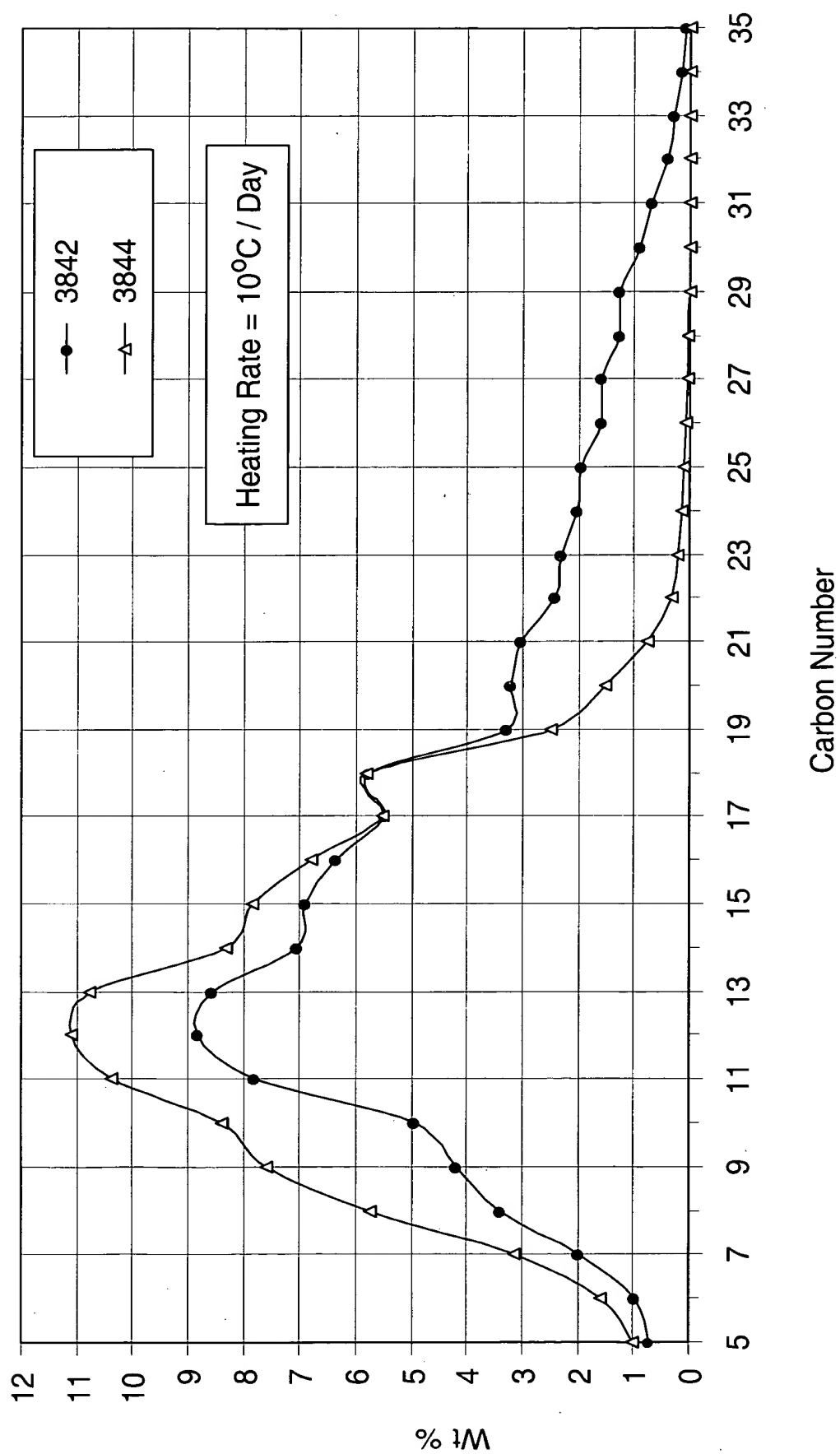


FIG. 142

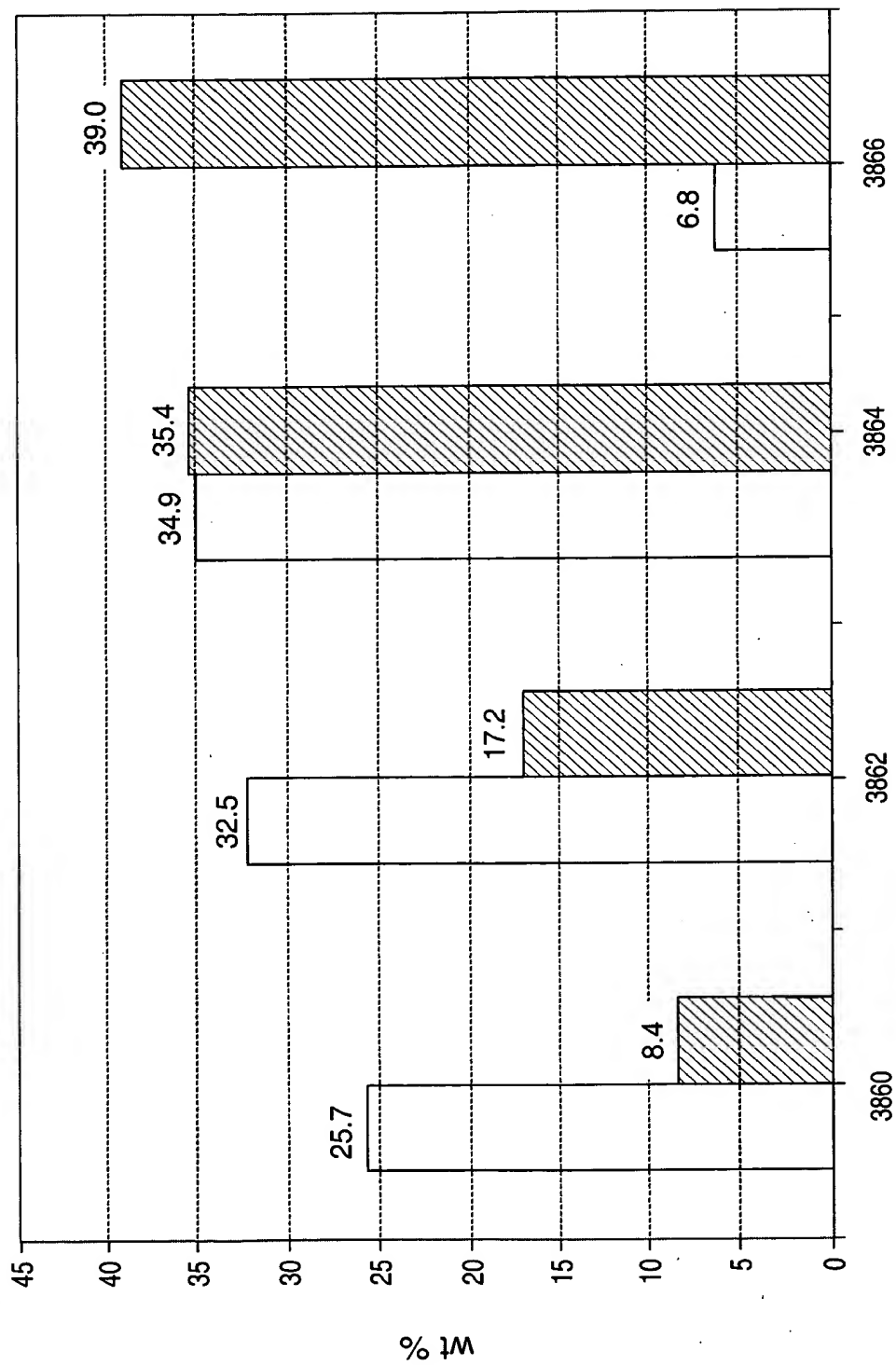


FIG. 143

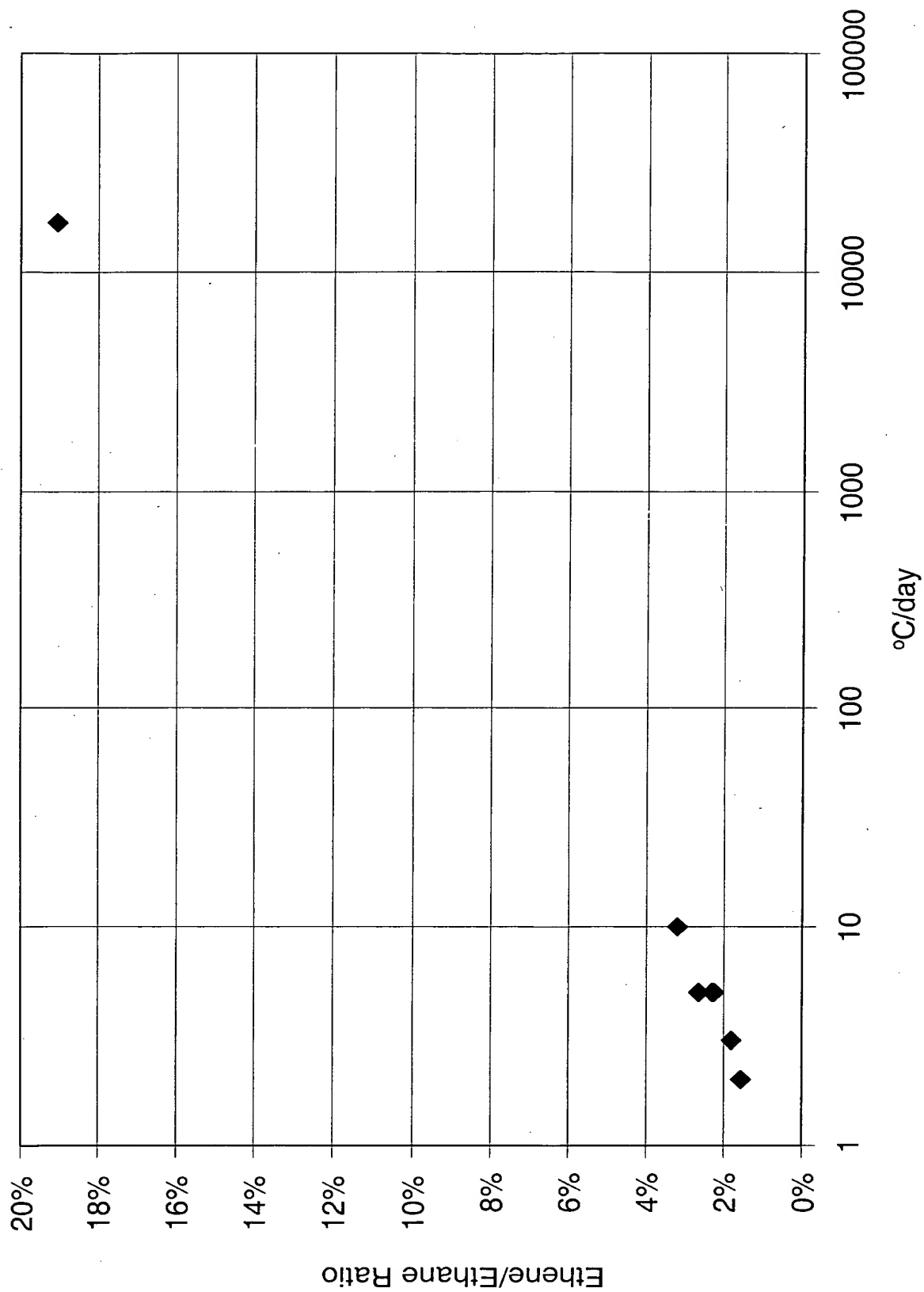


FIG. 144

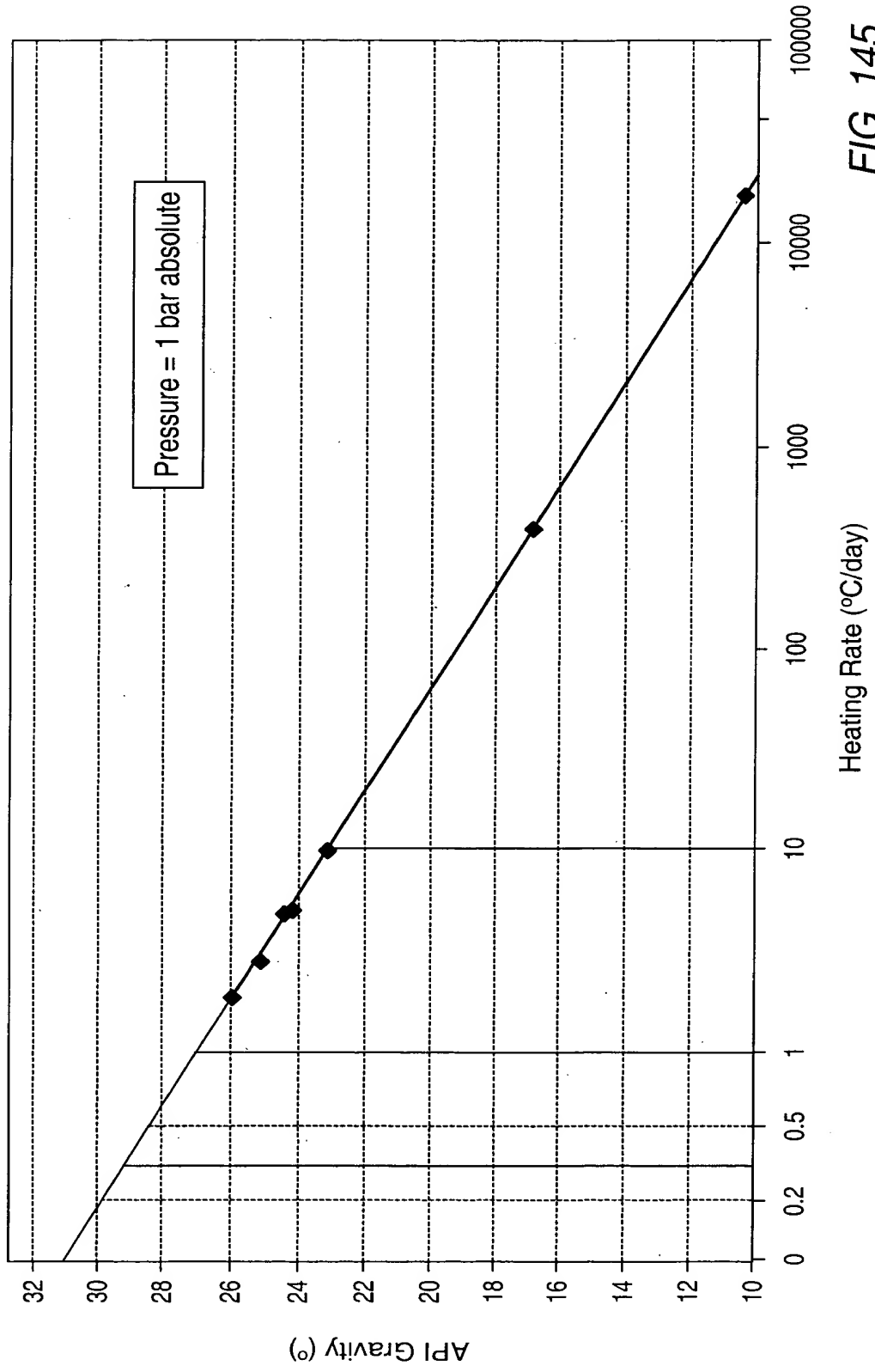


FIG. 145

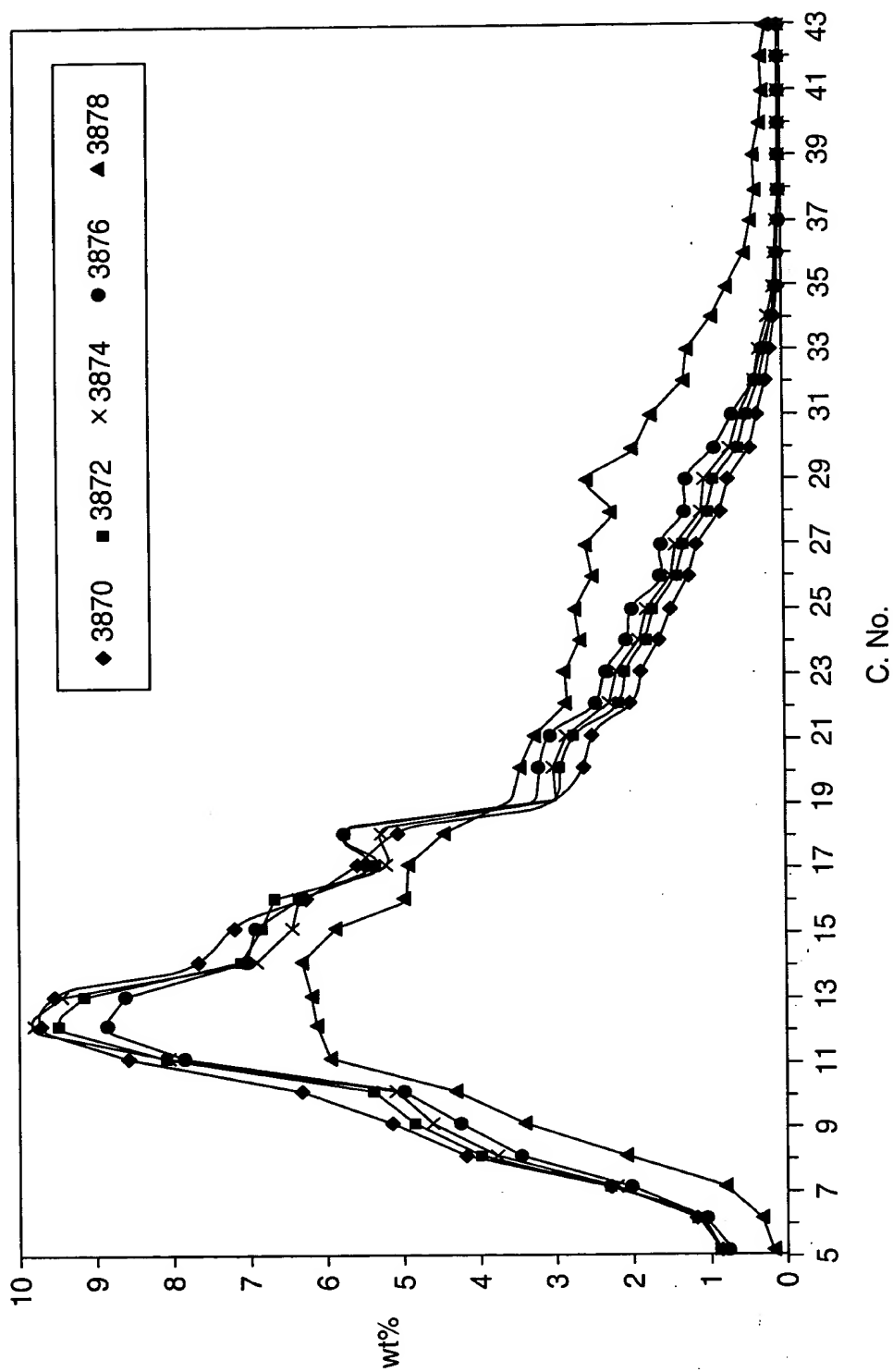


FIG. 146

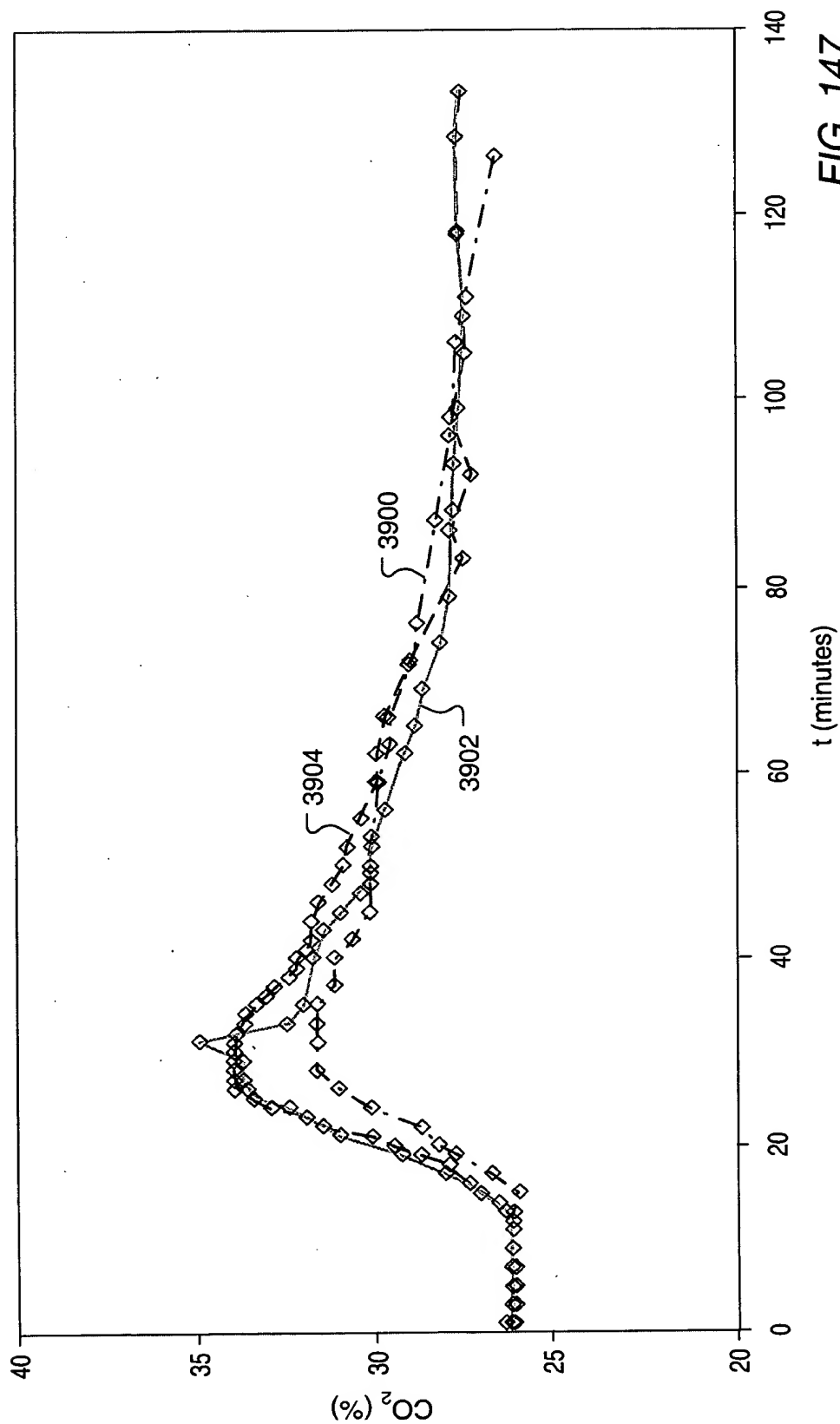


FIG. 147

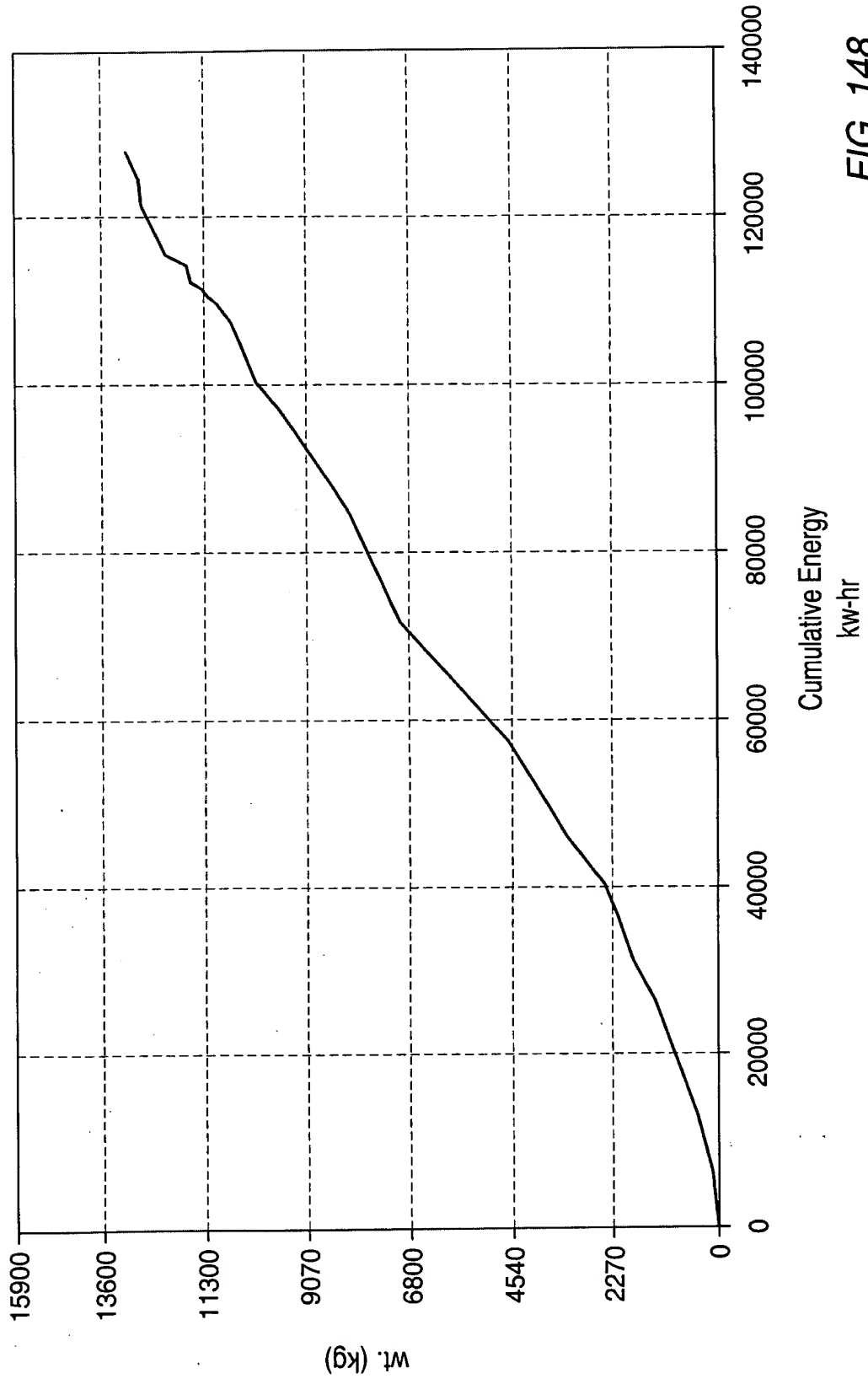


FIG. 148

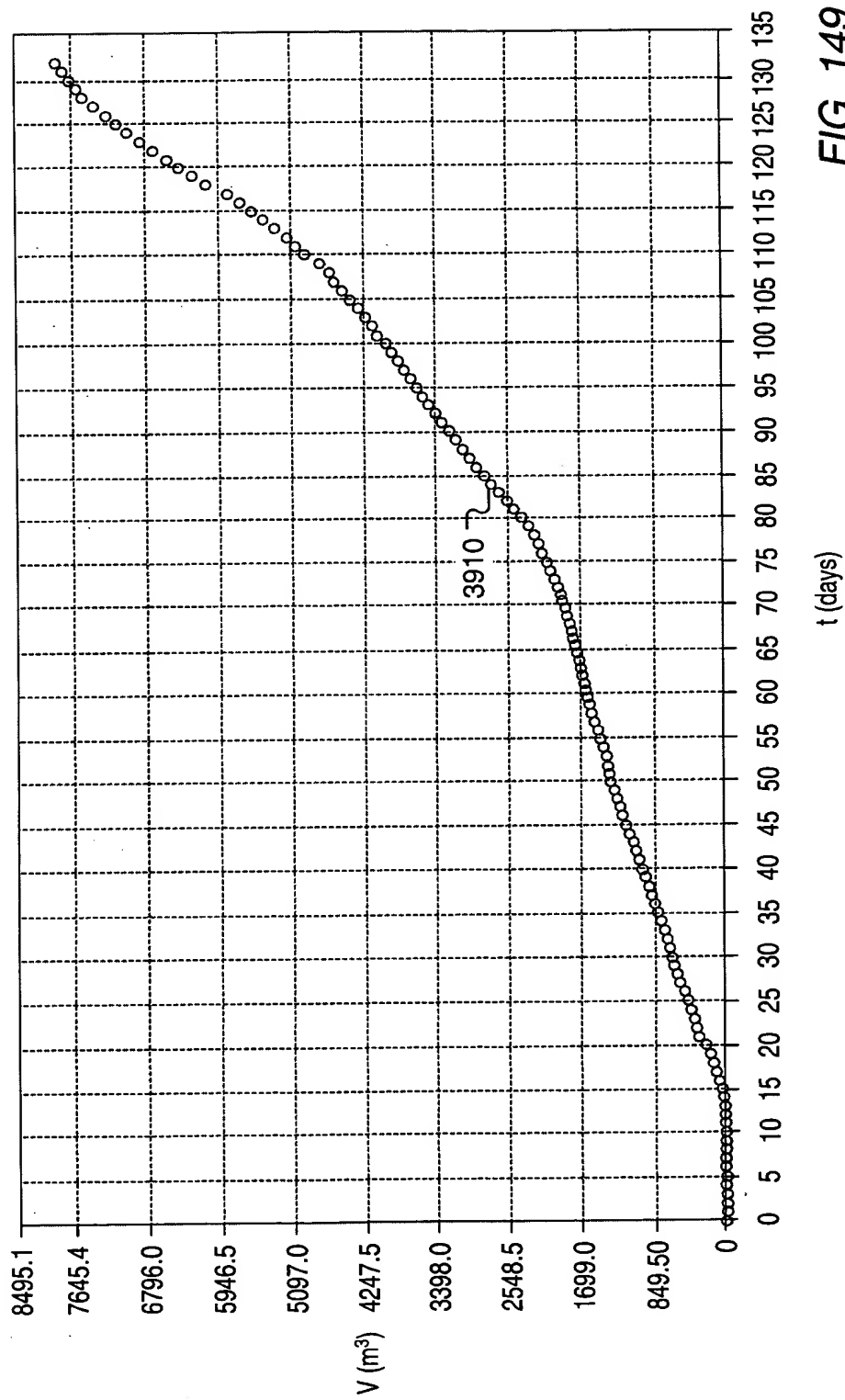


FIG. 149

FIG. 150

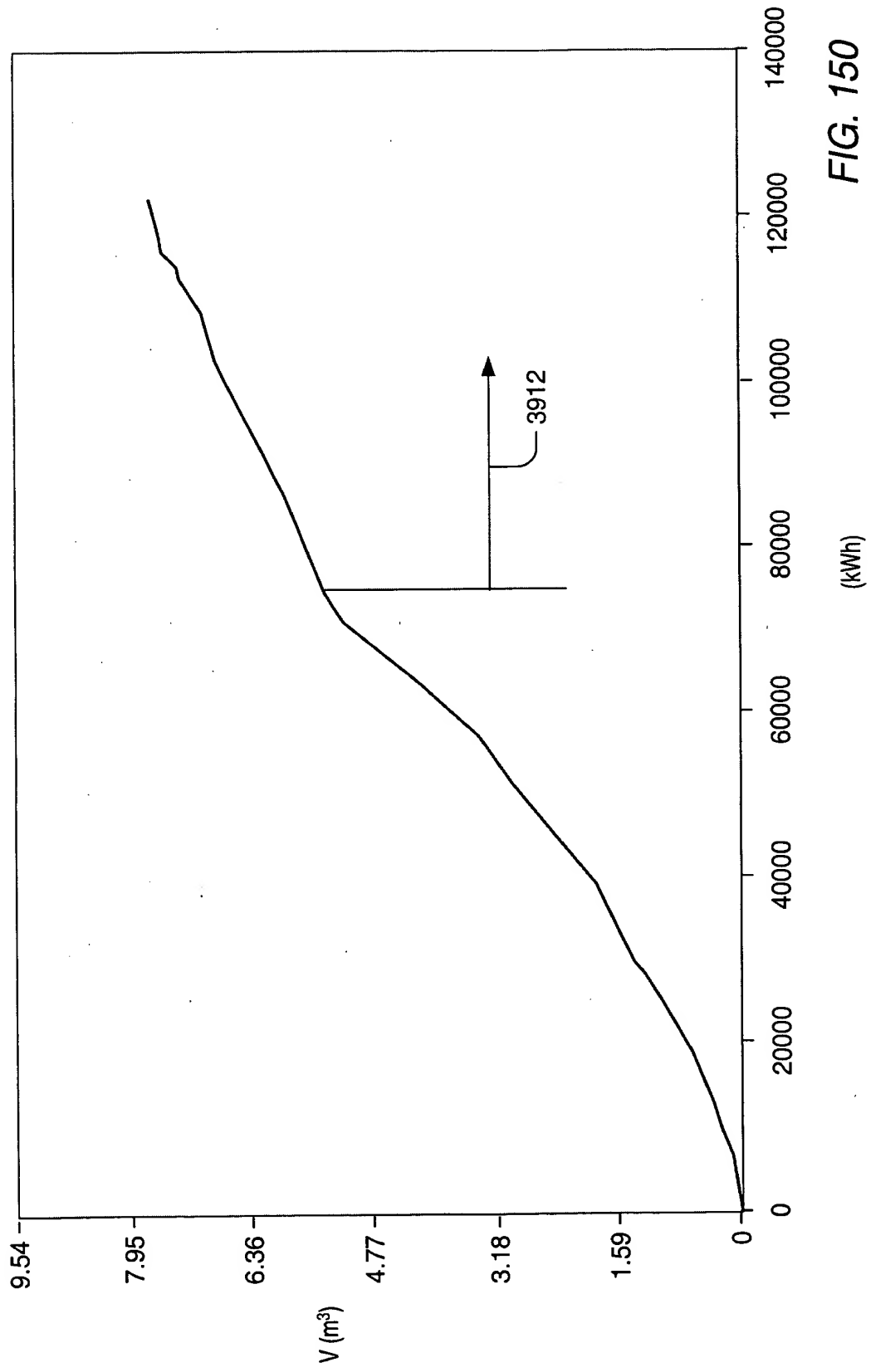


FIG. 150

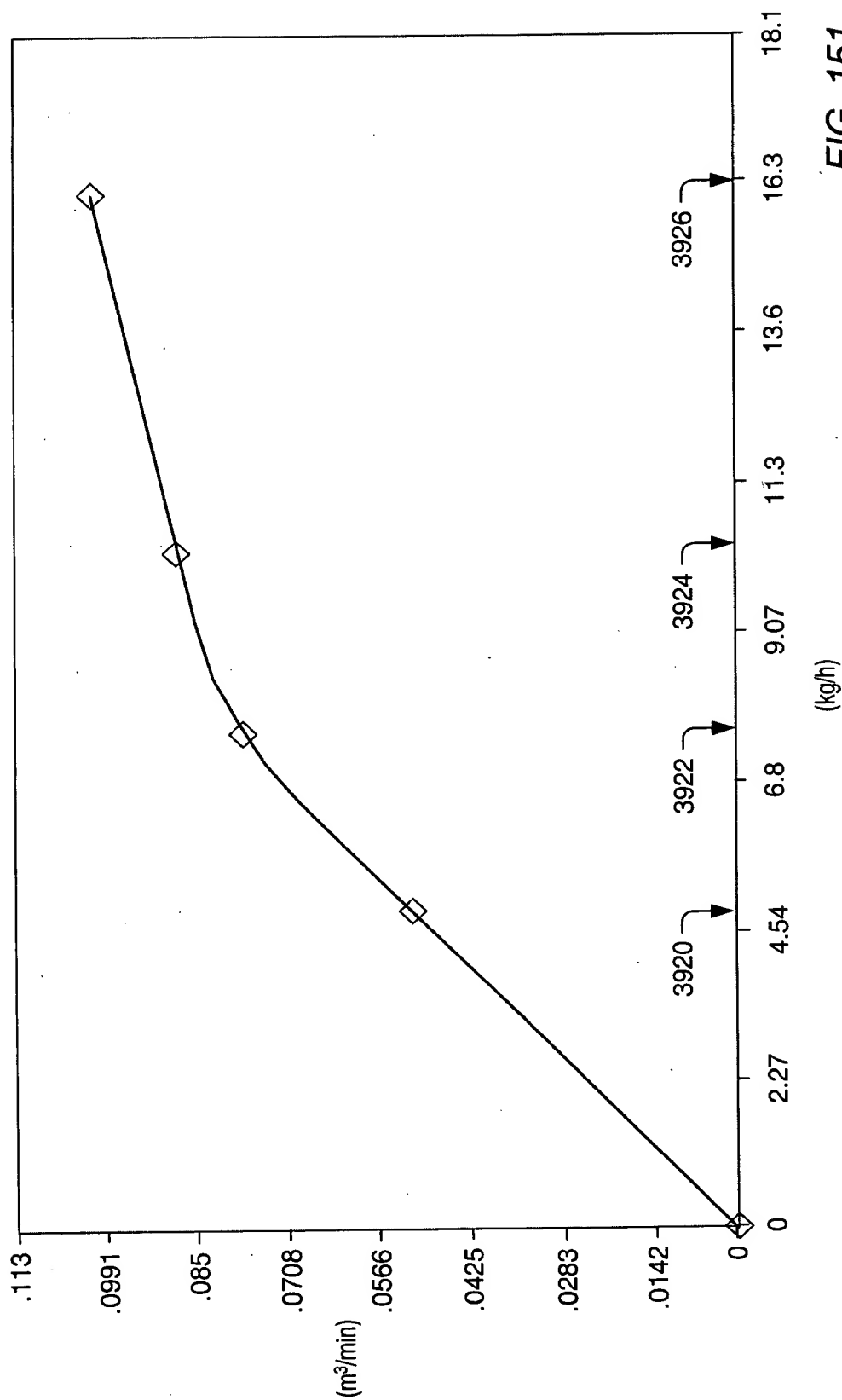


FIG. 151

FIG. 152

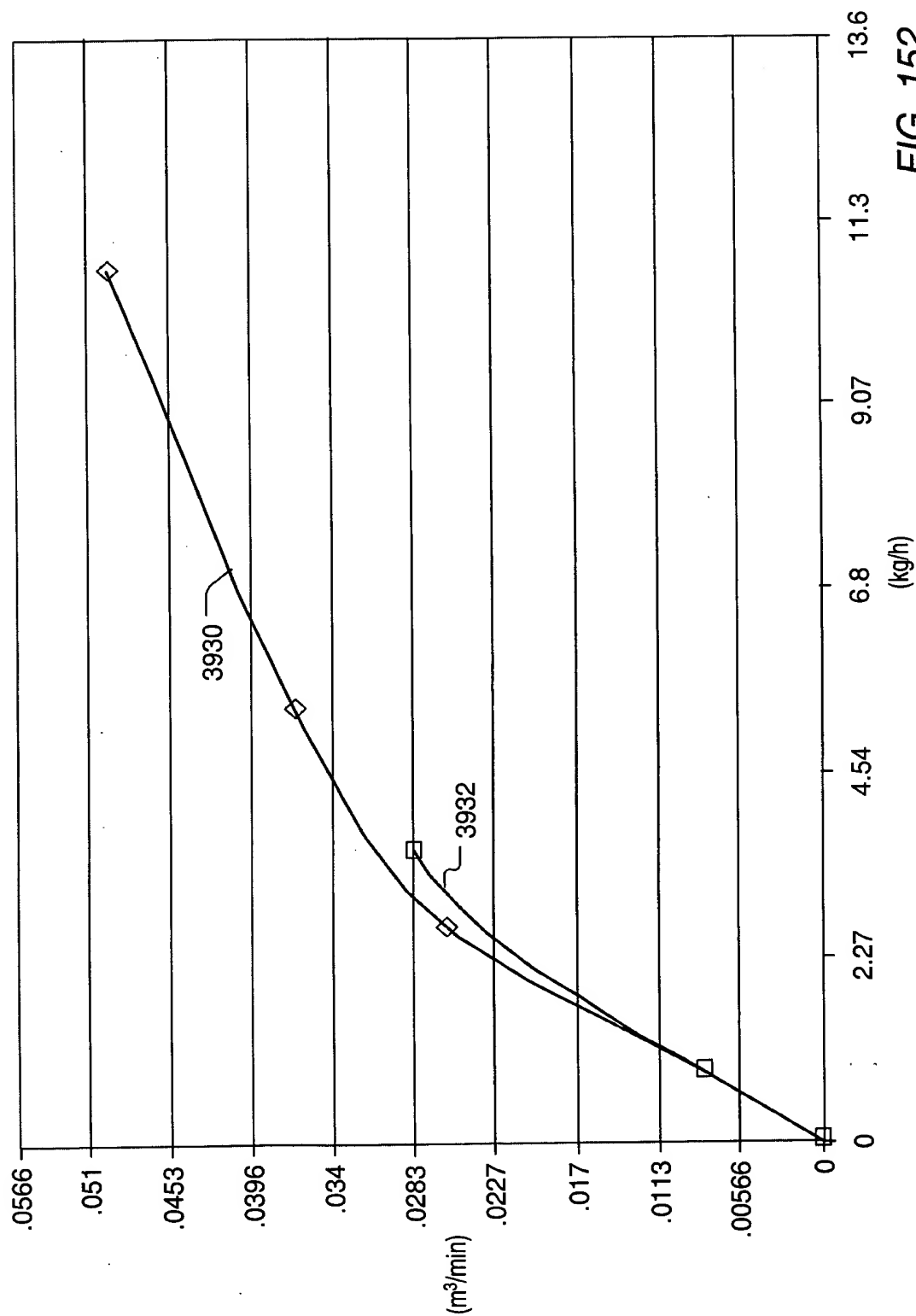


FIG. 152

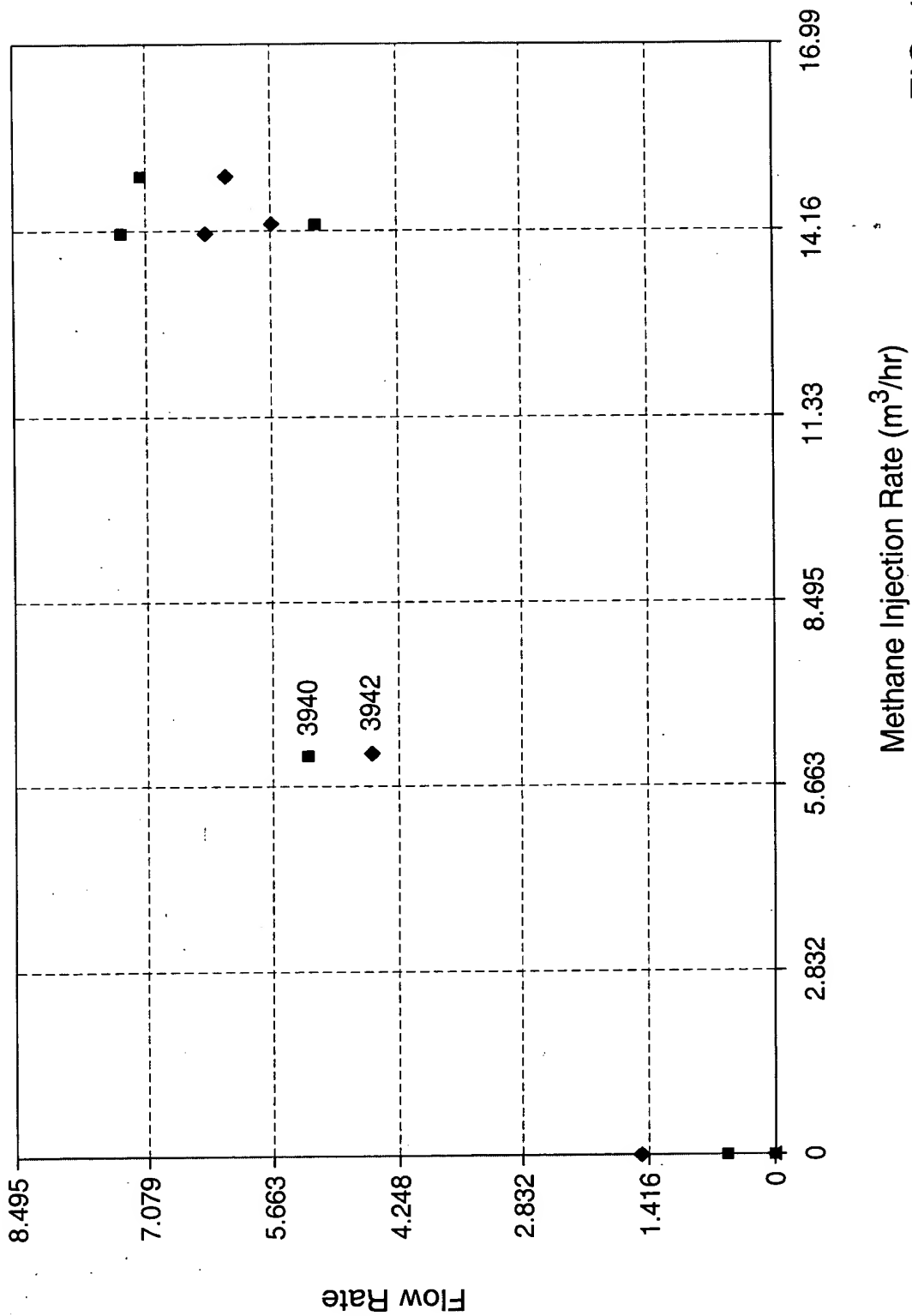


FIG. 153

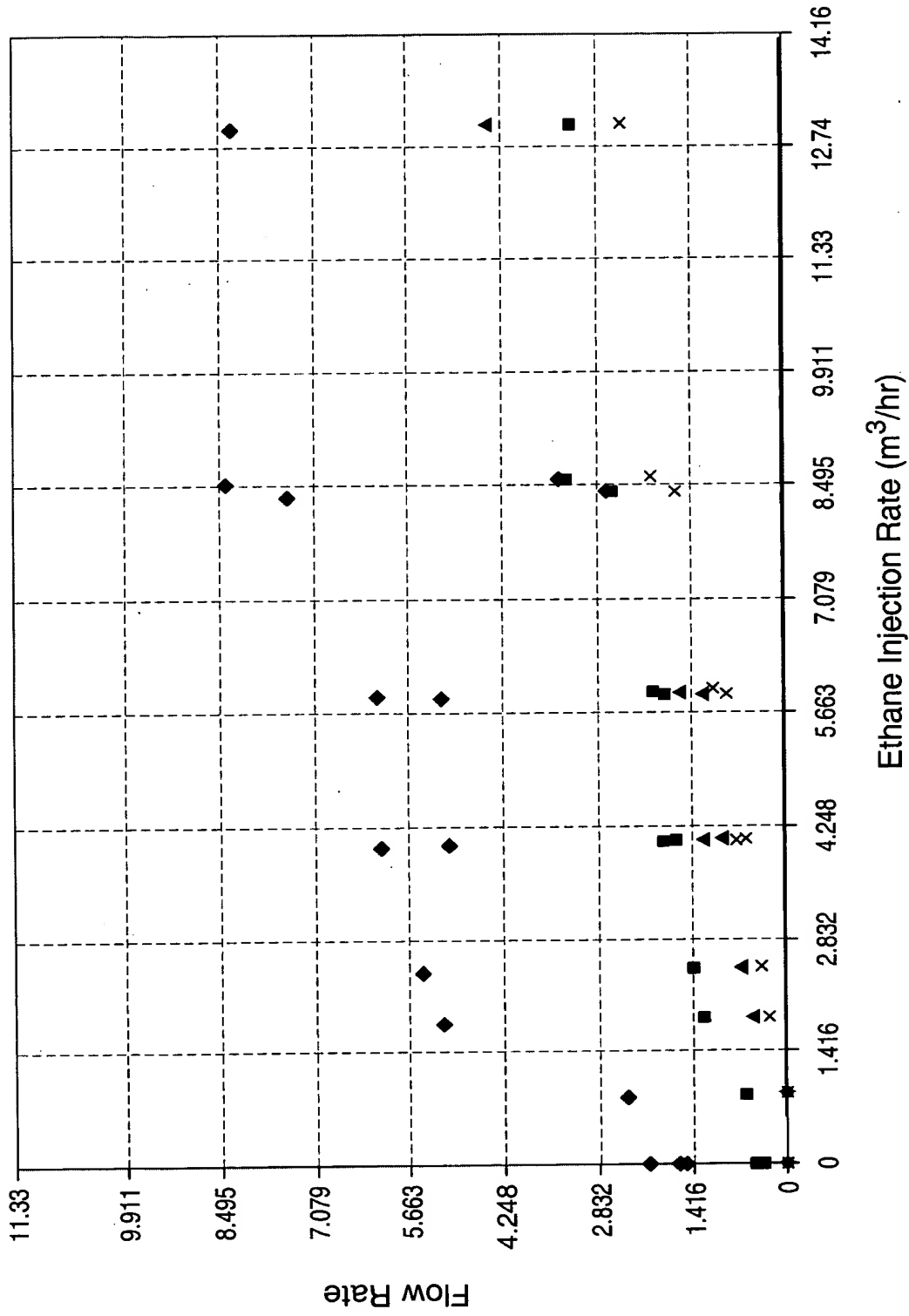


FIG. 154

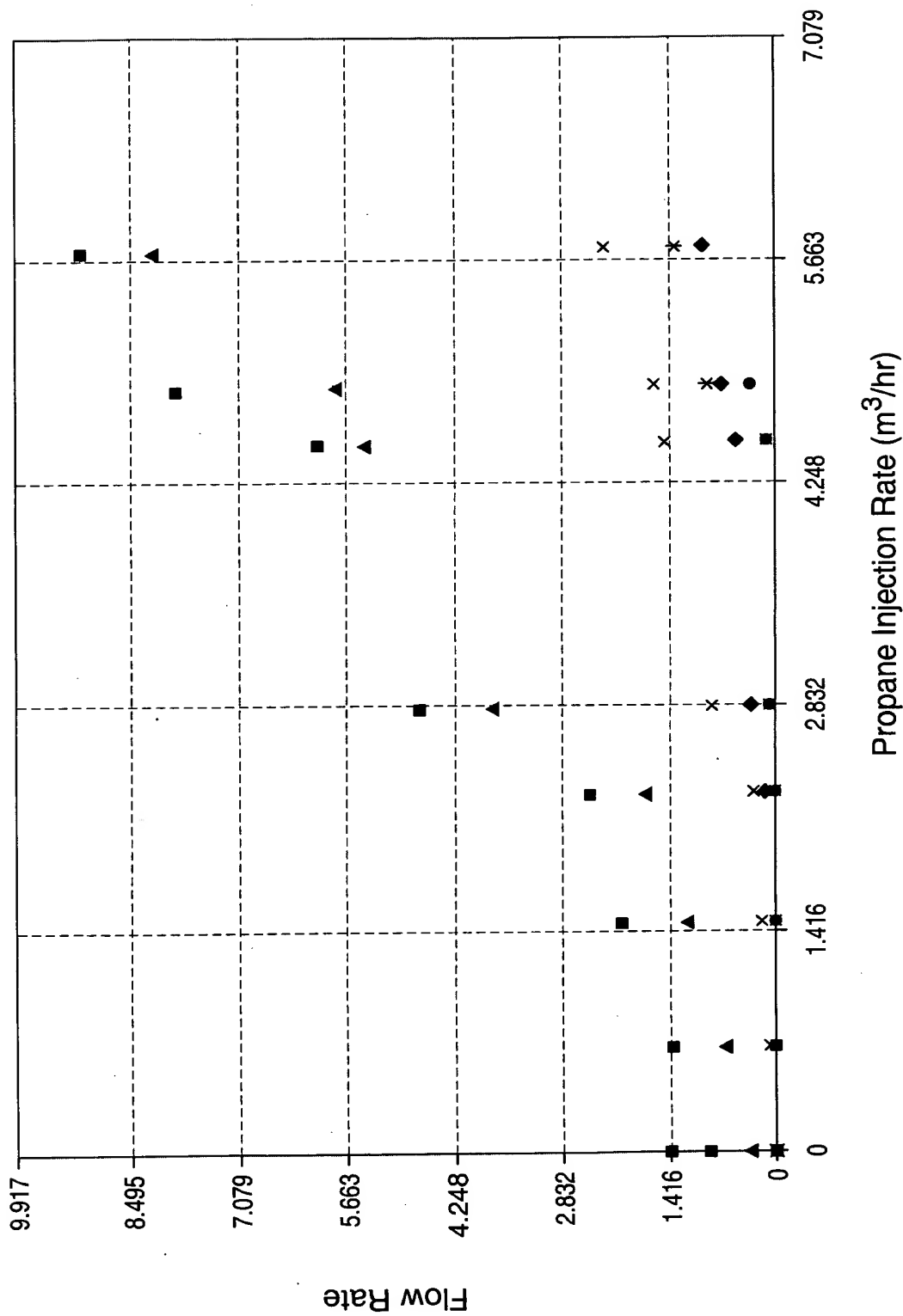
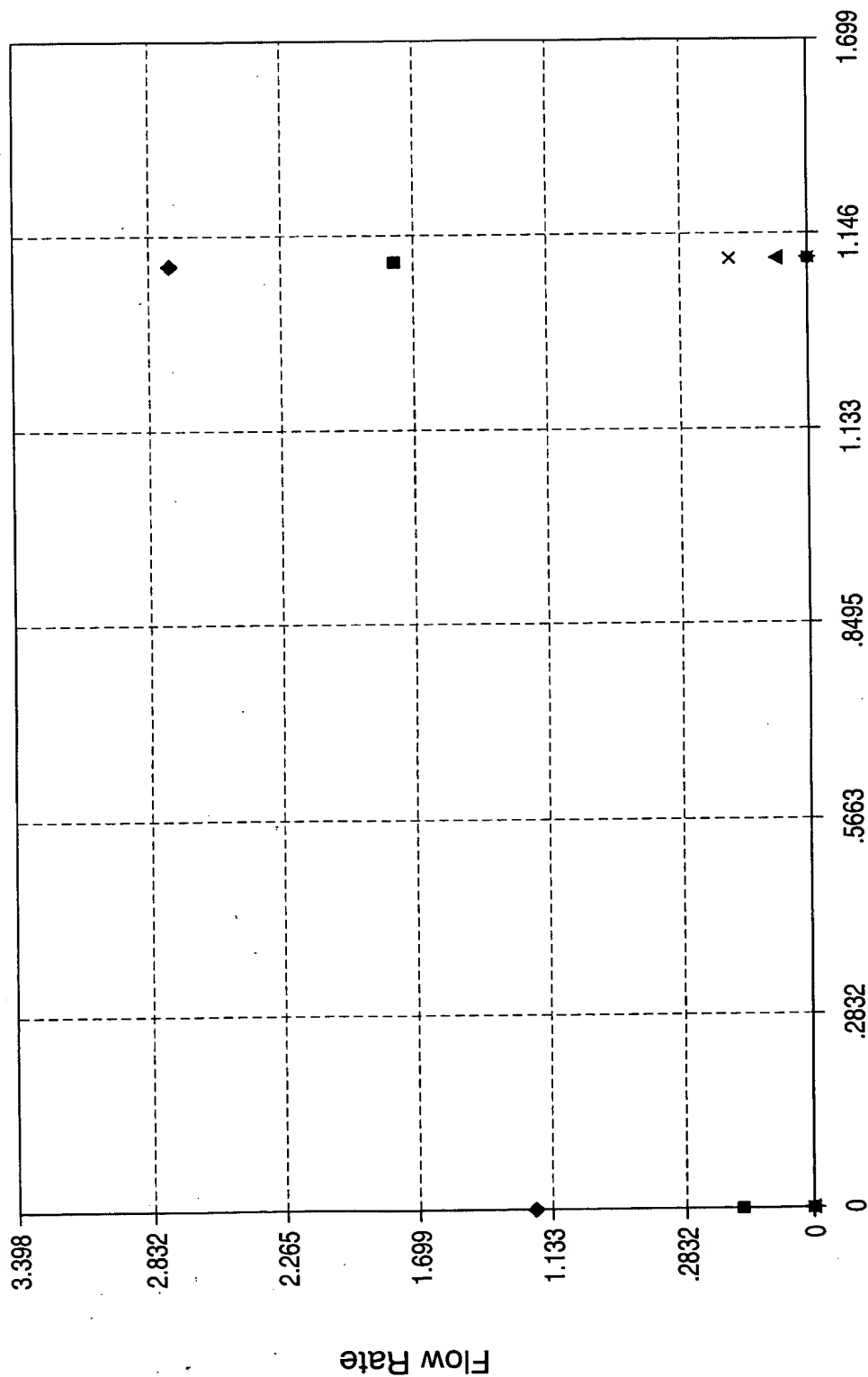


FIG. 155



Butane Injection Rate (m³/hr)

3970
 3972
 3974
 3976
 3978
 3979

FIG. 156

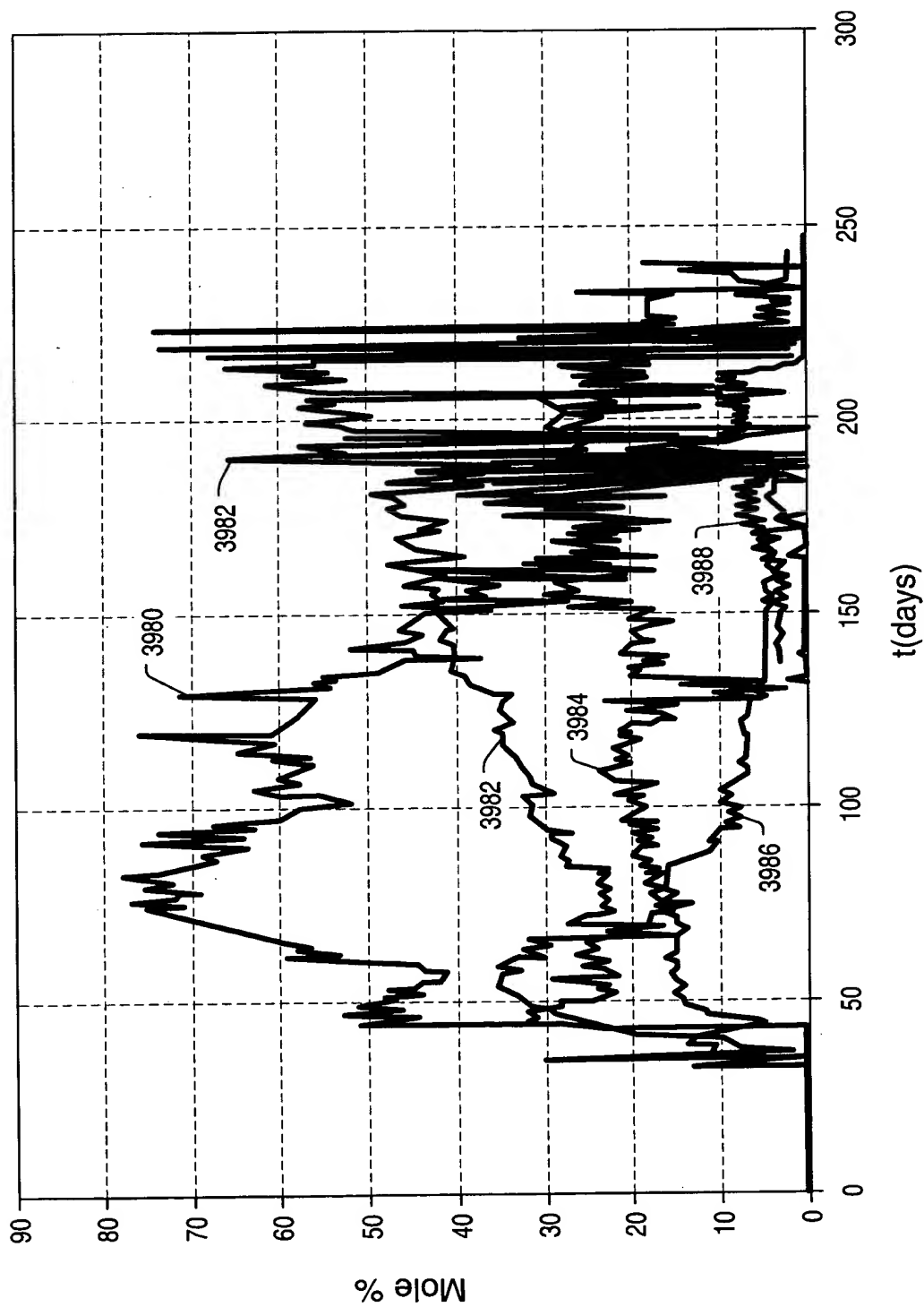


FIG. 157

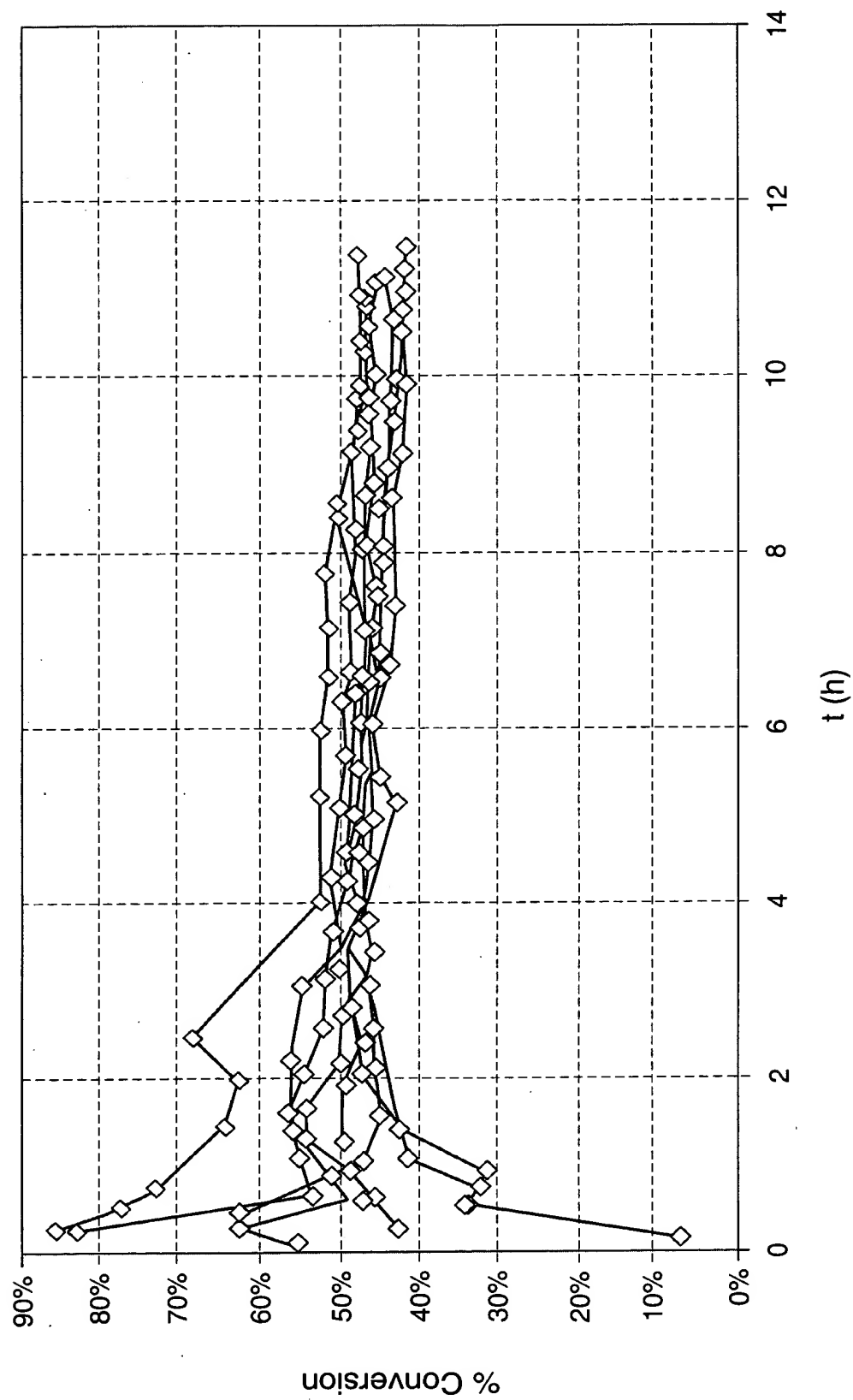


FIG. 158

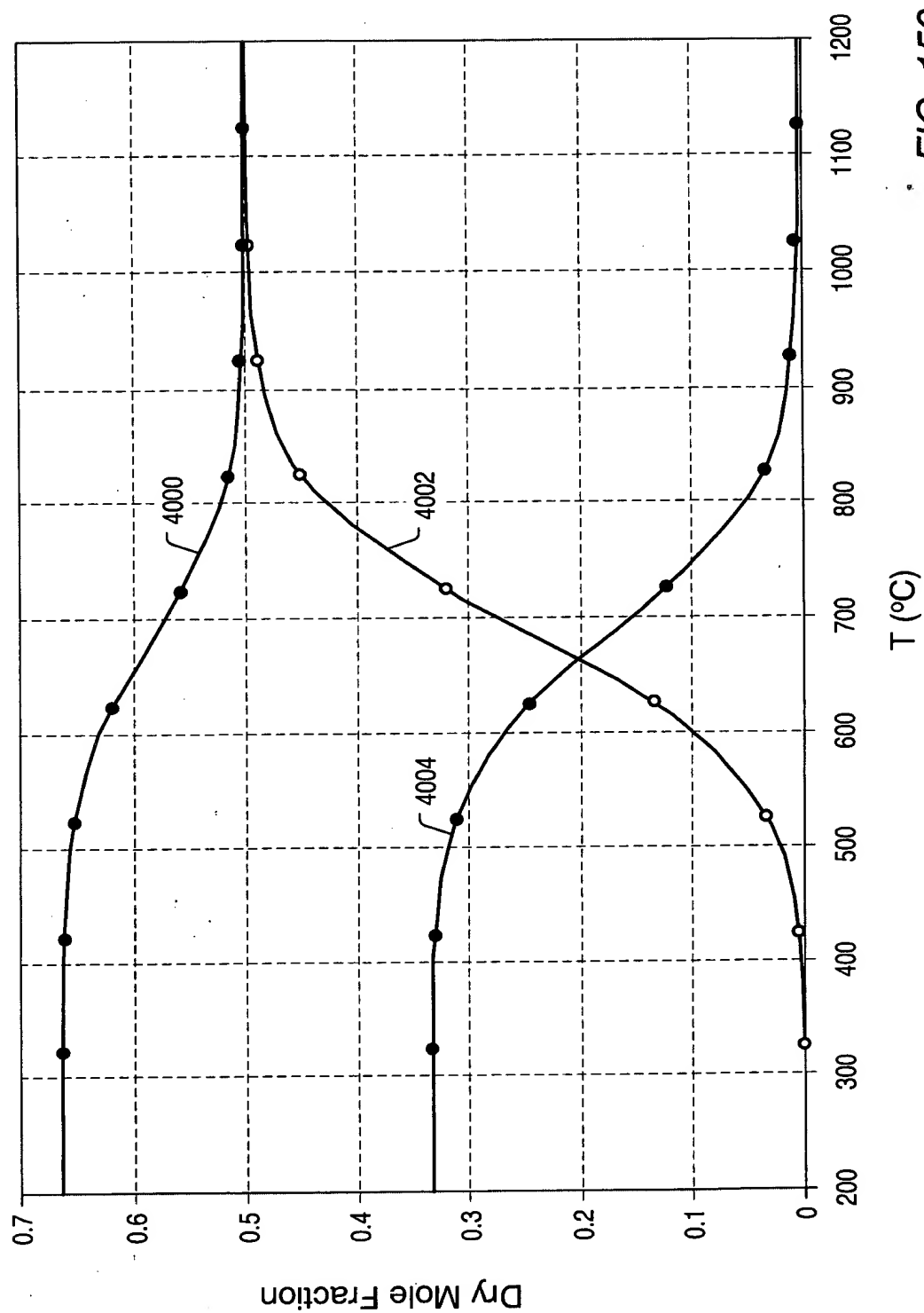


FIG. 159

Wet Mole Fraction

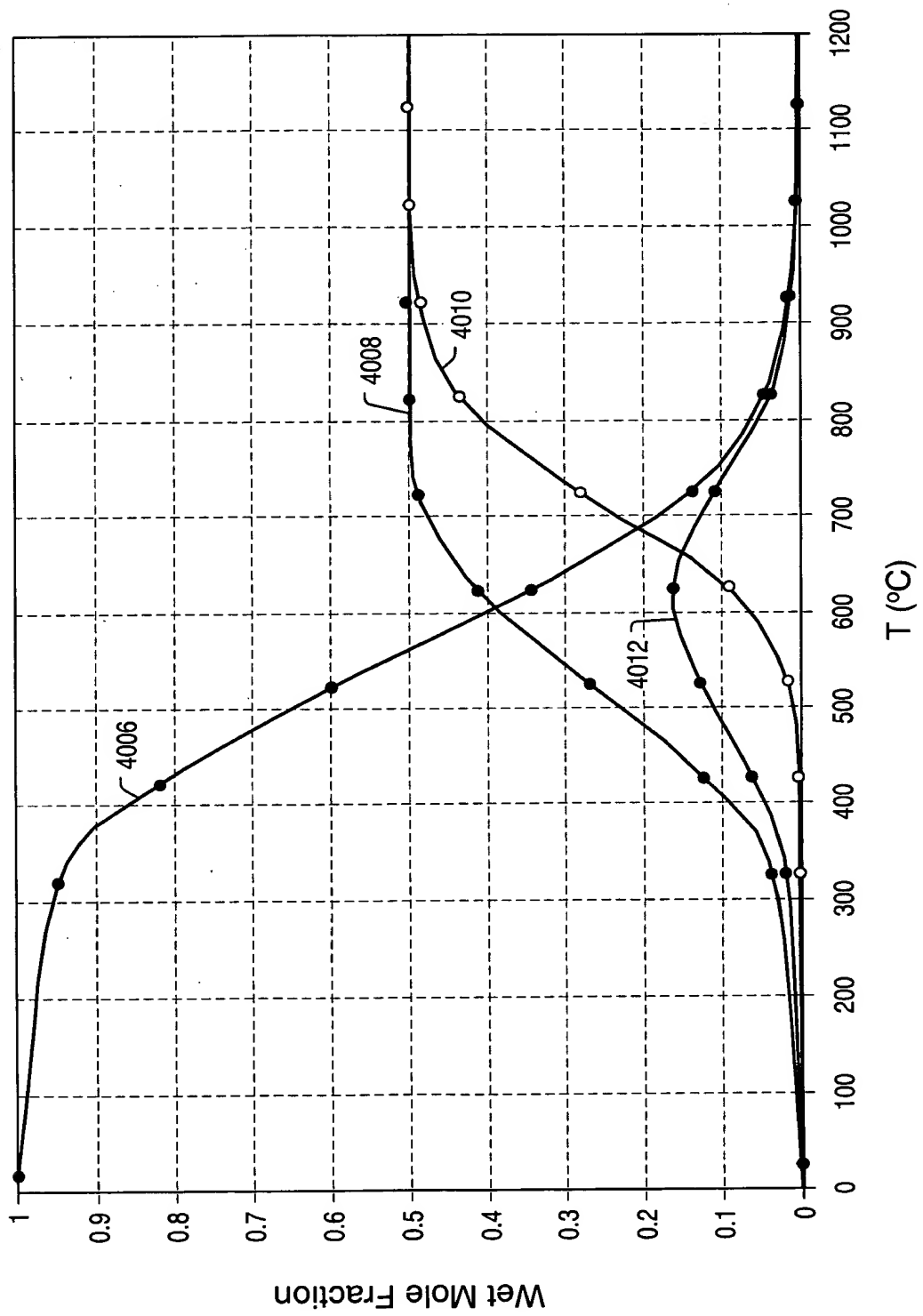


FIG. 160

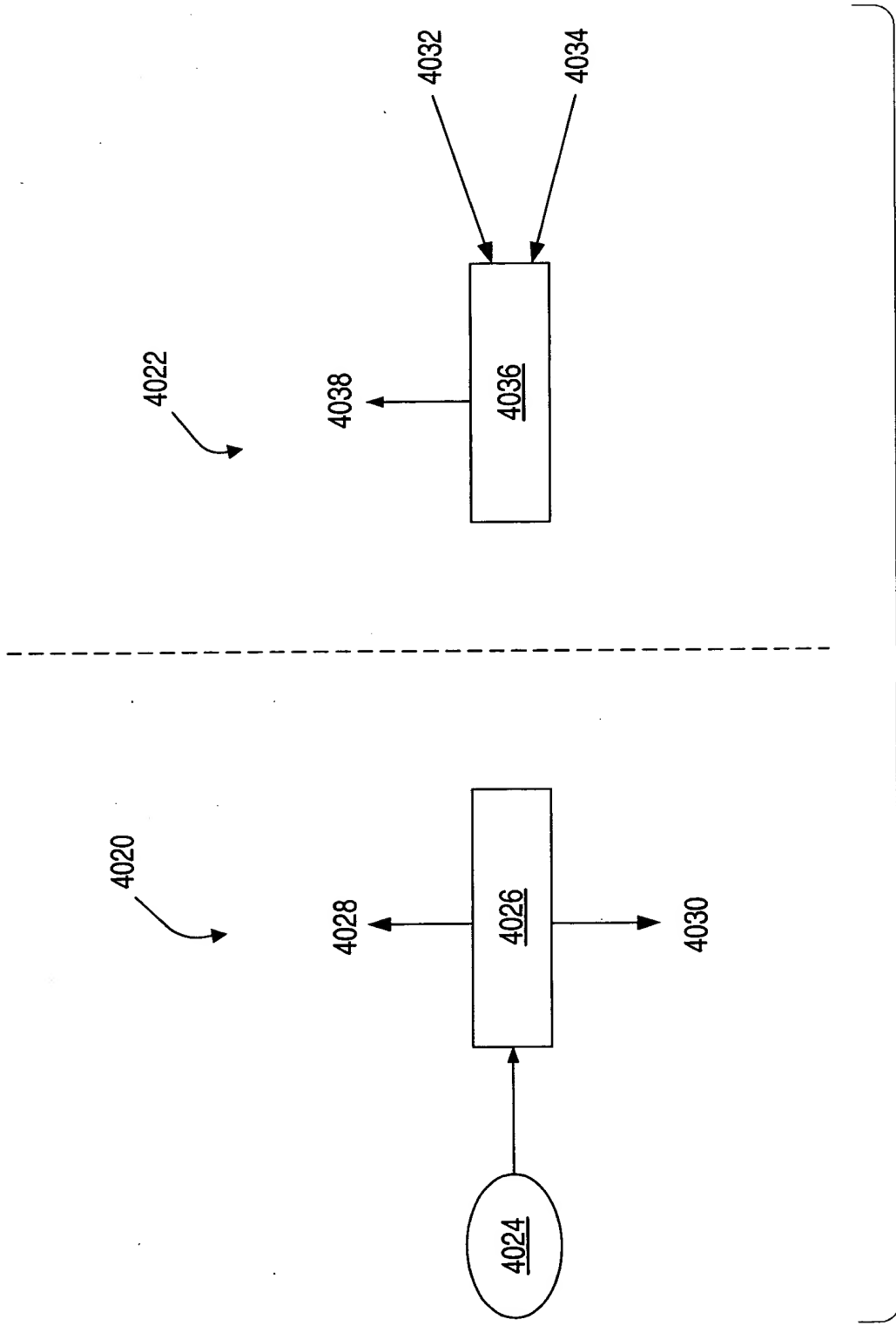


FIG. 161

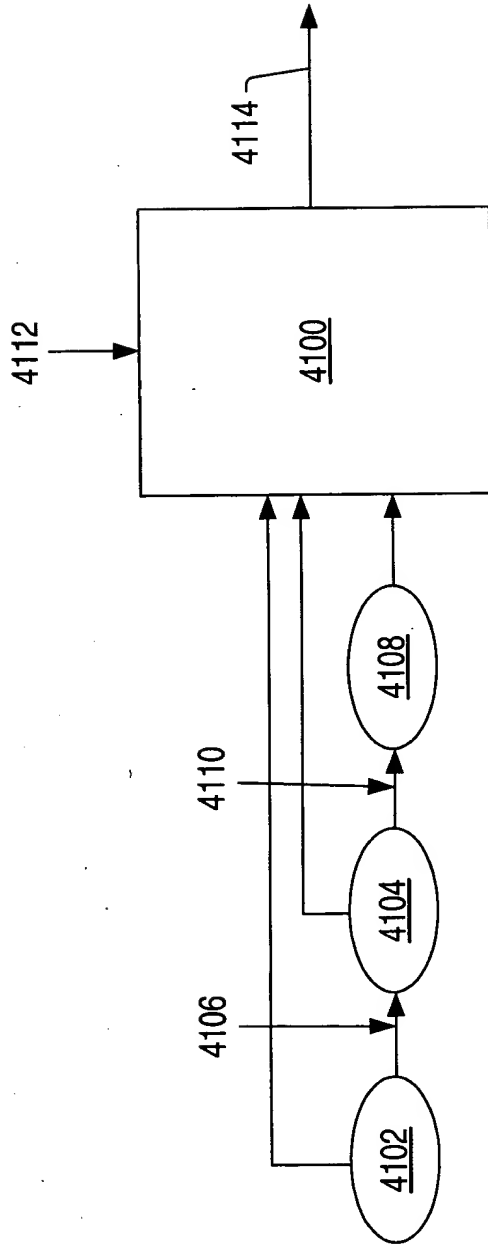


FIG. 162

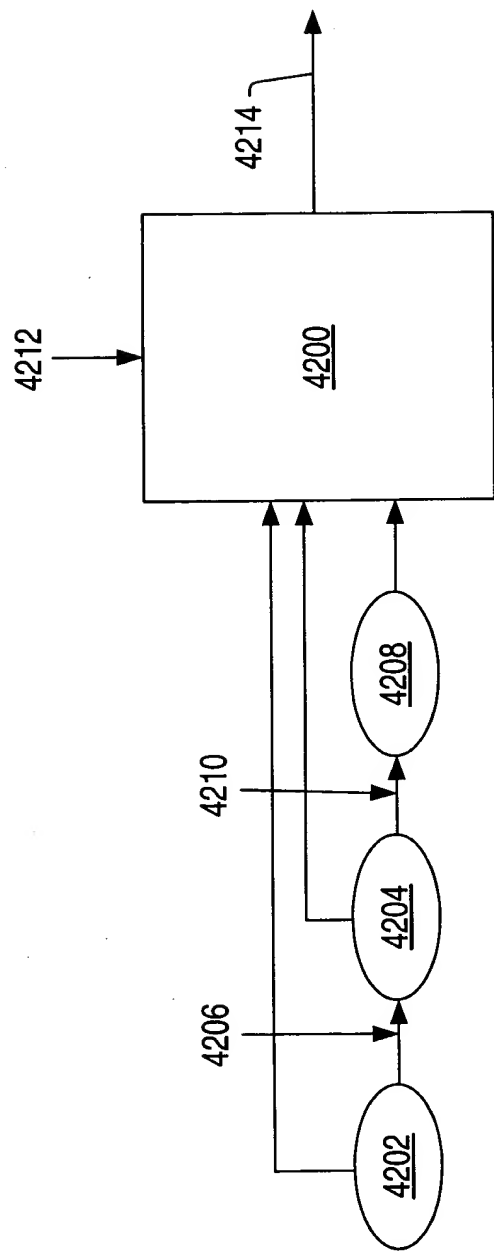


FIG. 163

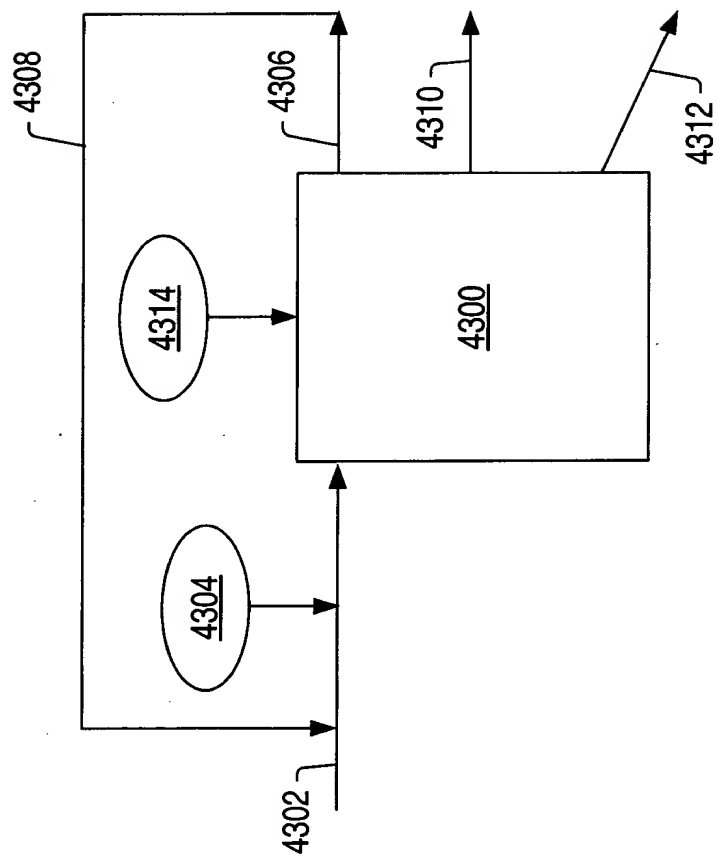


FIG. 164

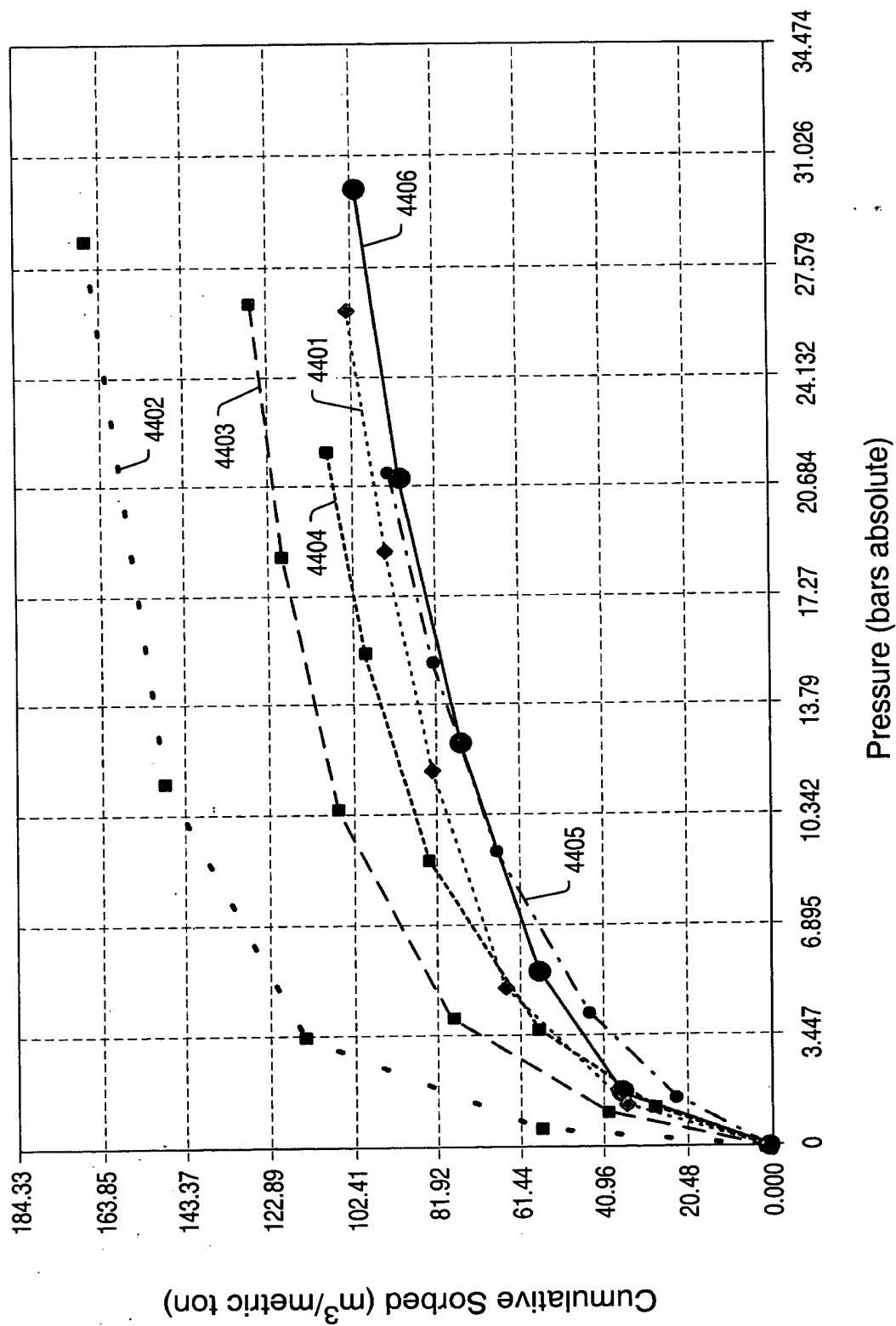


FIG. 165

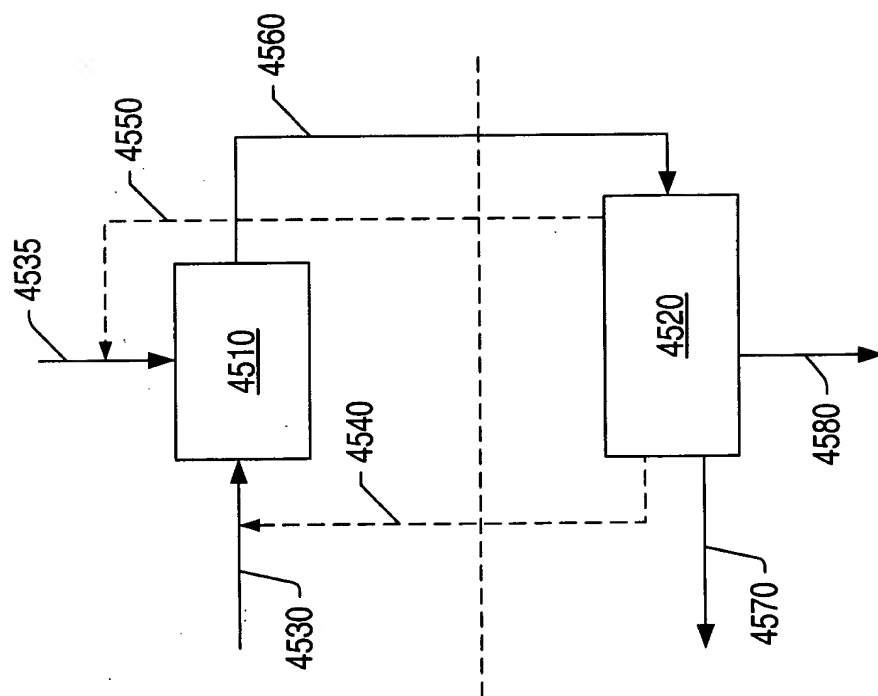


FIG. 166

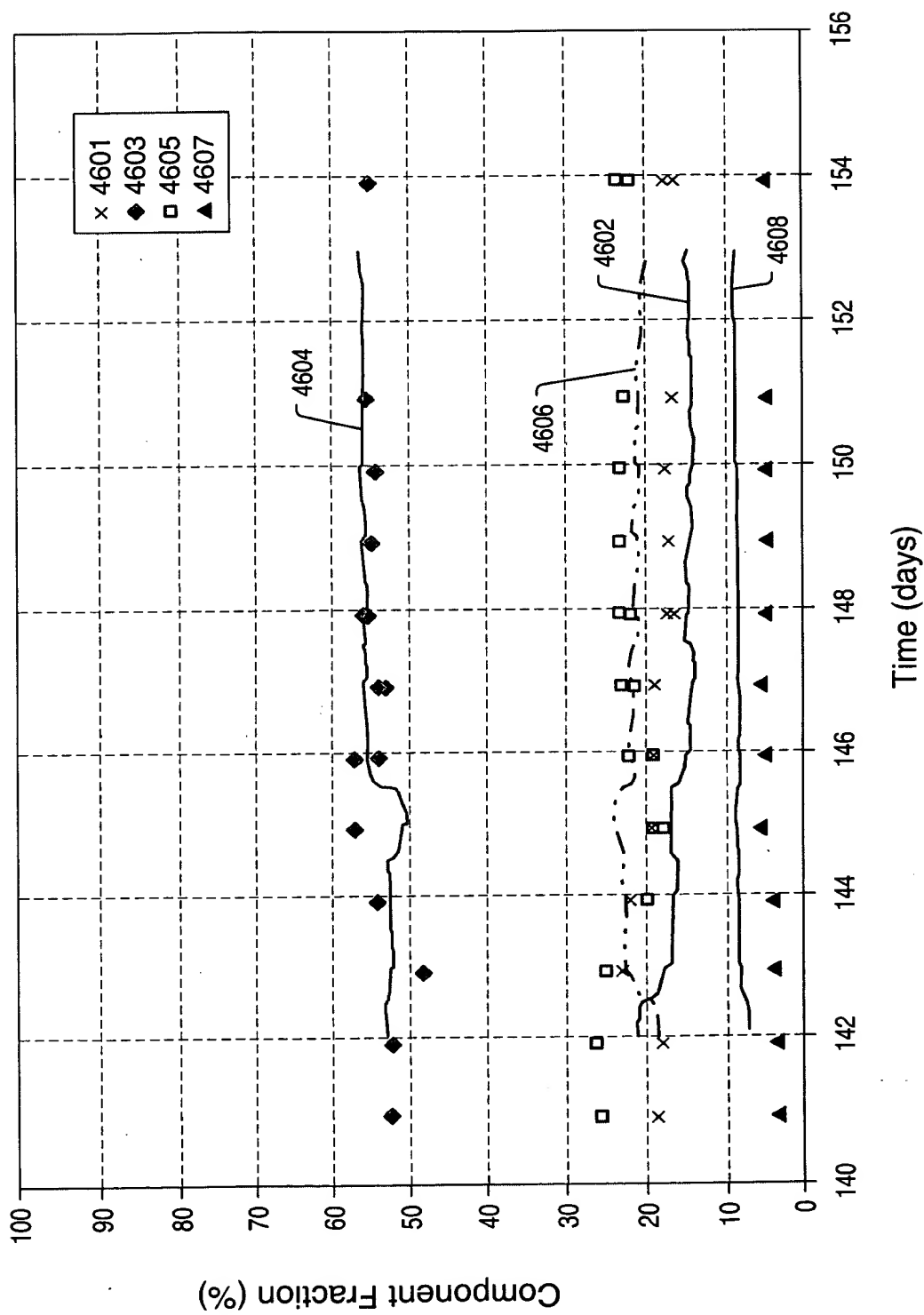


FIG. 167

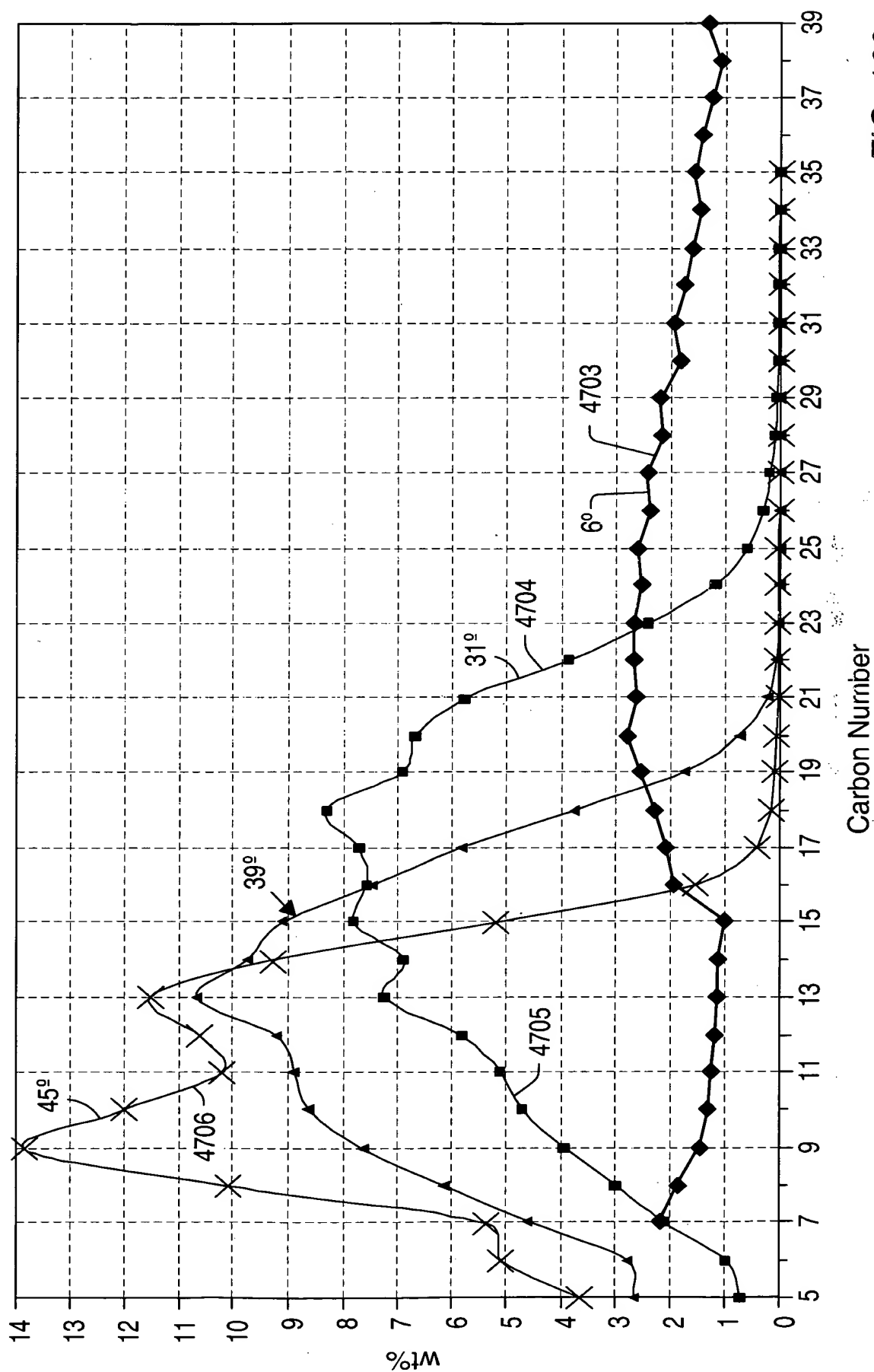


FIG. 168

FIG. 169

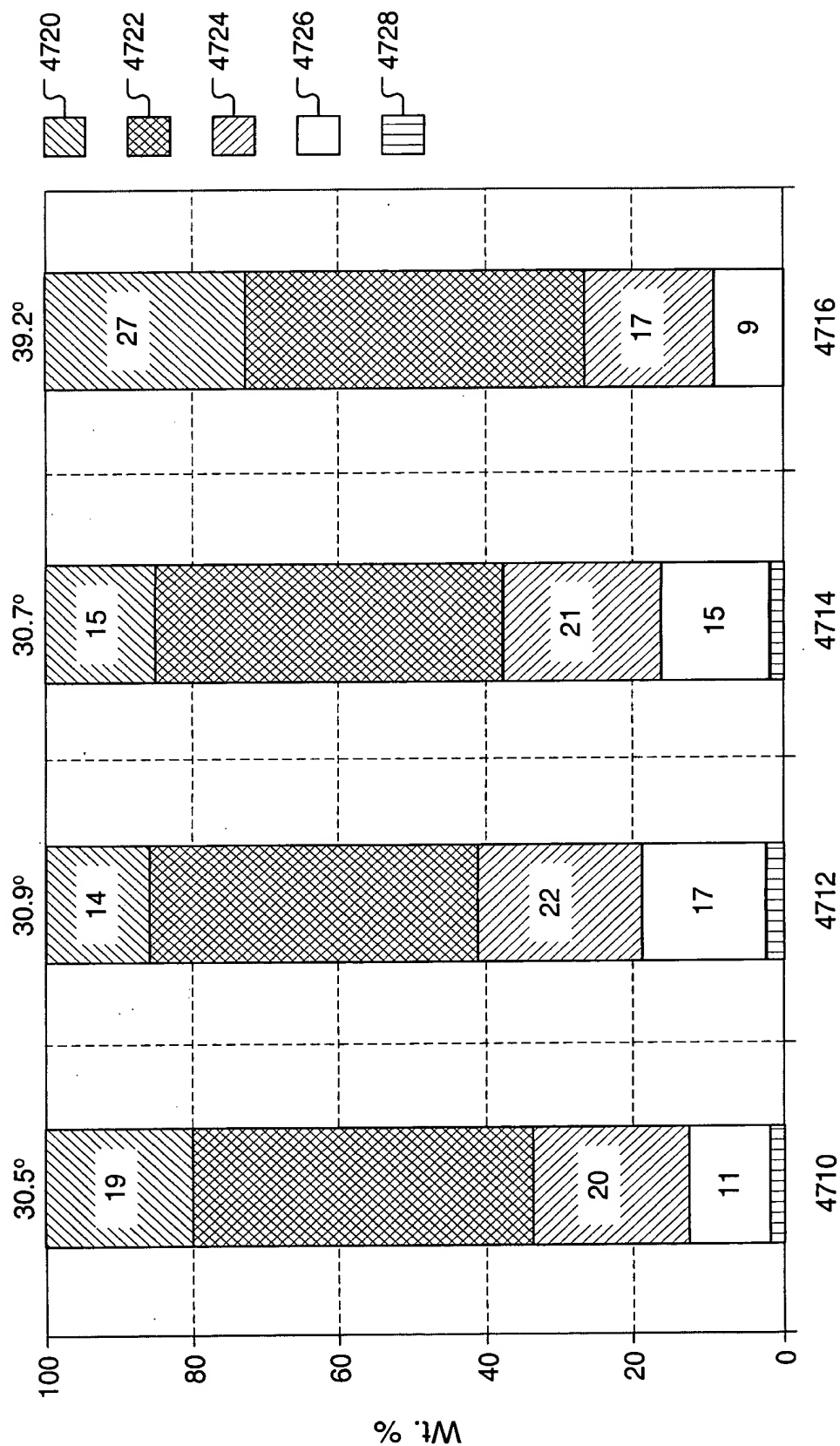


FIG. 169

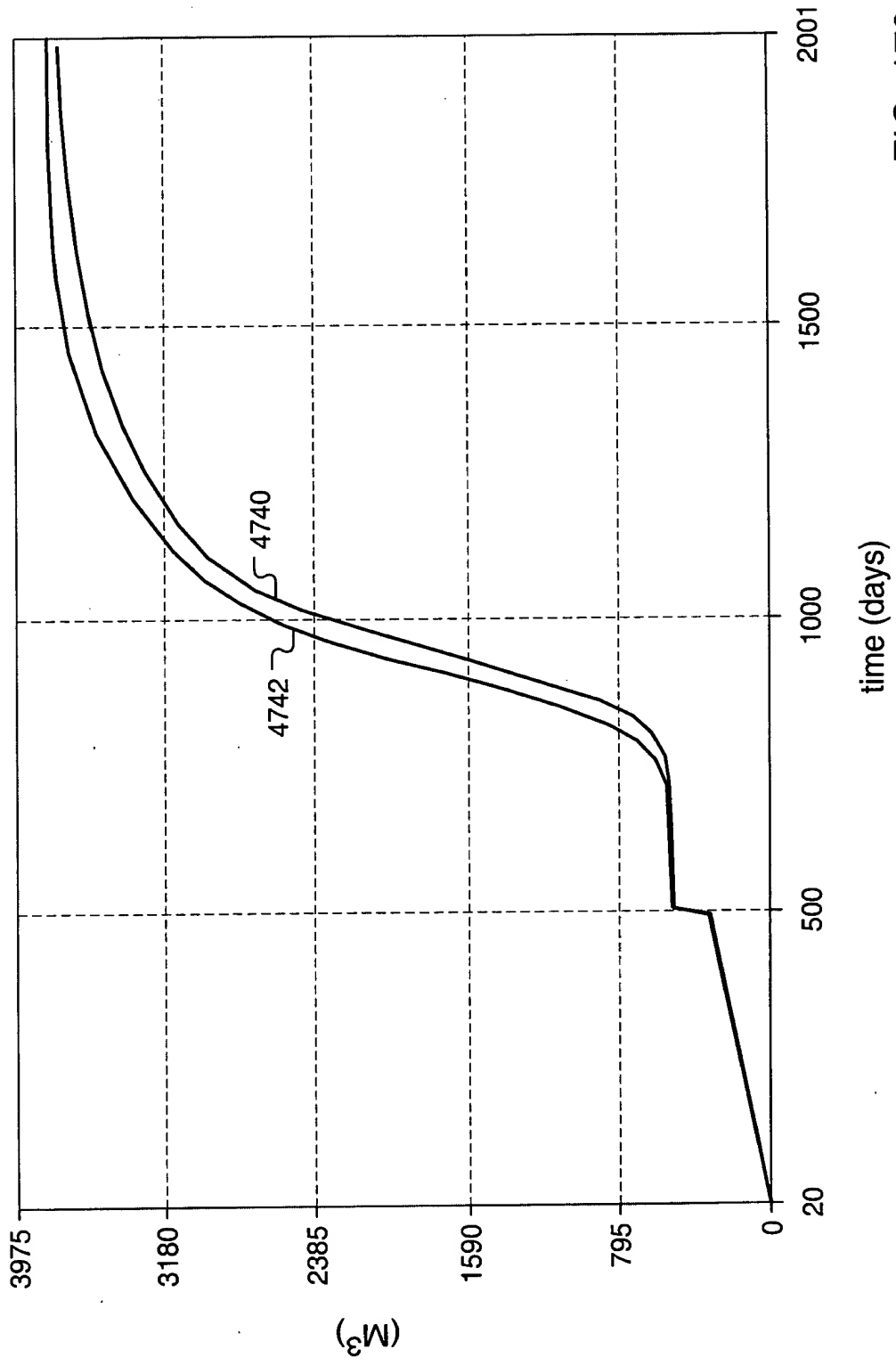


FIG. 170

FIG. 171

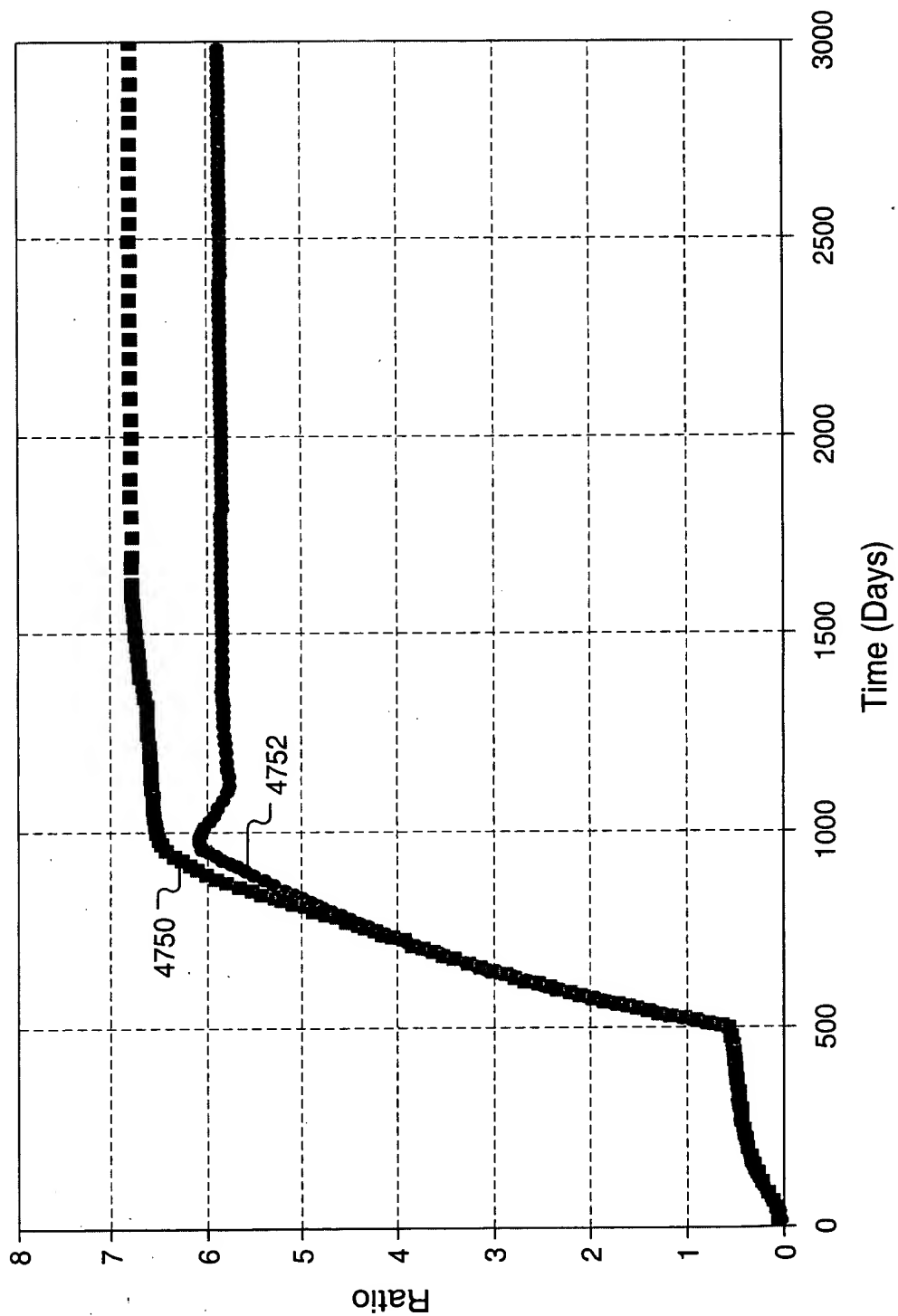


FIG. 171

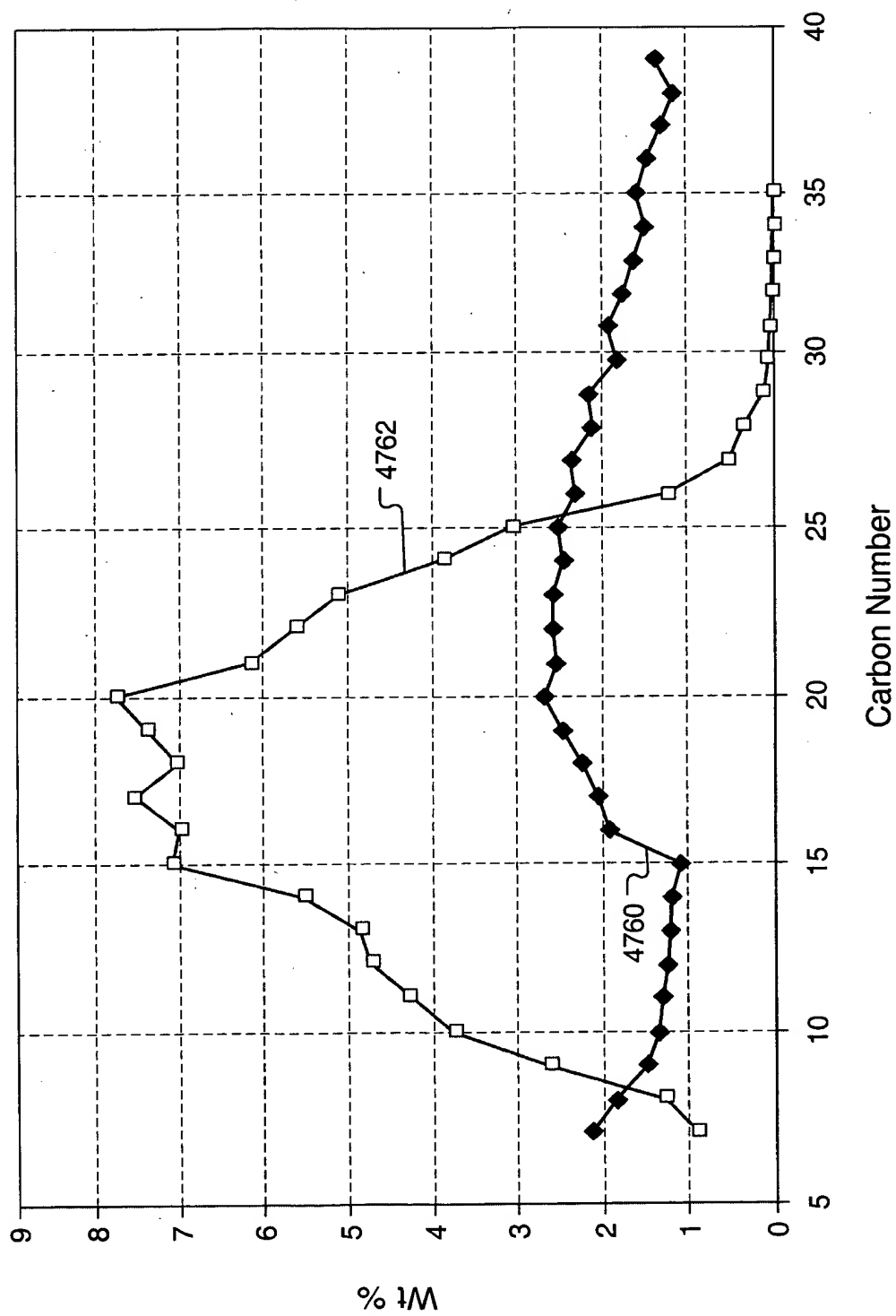


FIG. 172

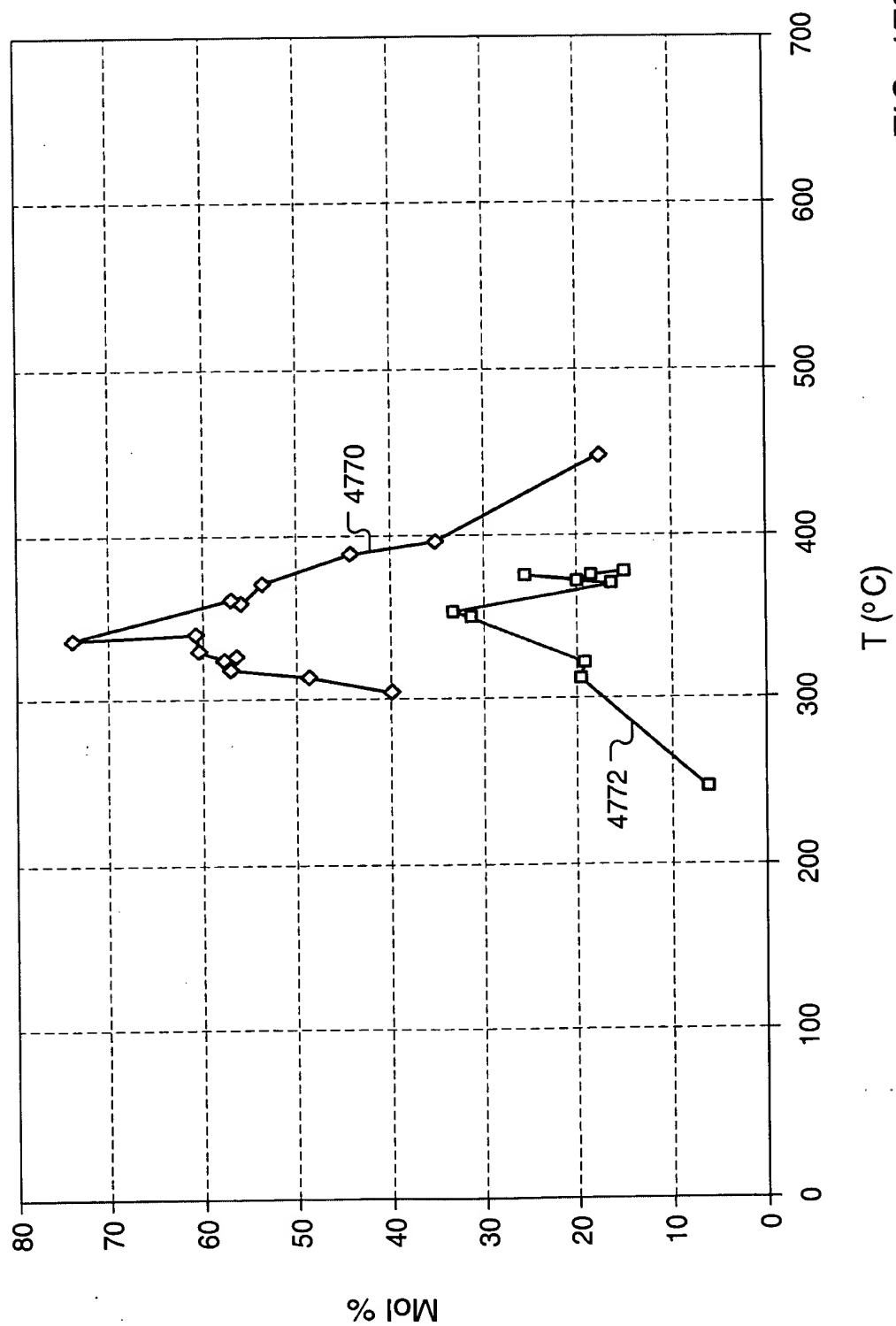


FIG. 173

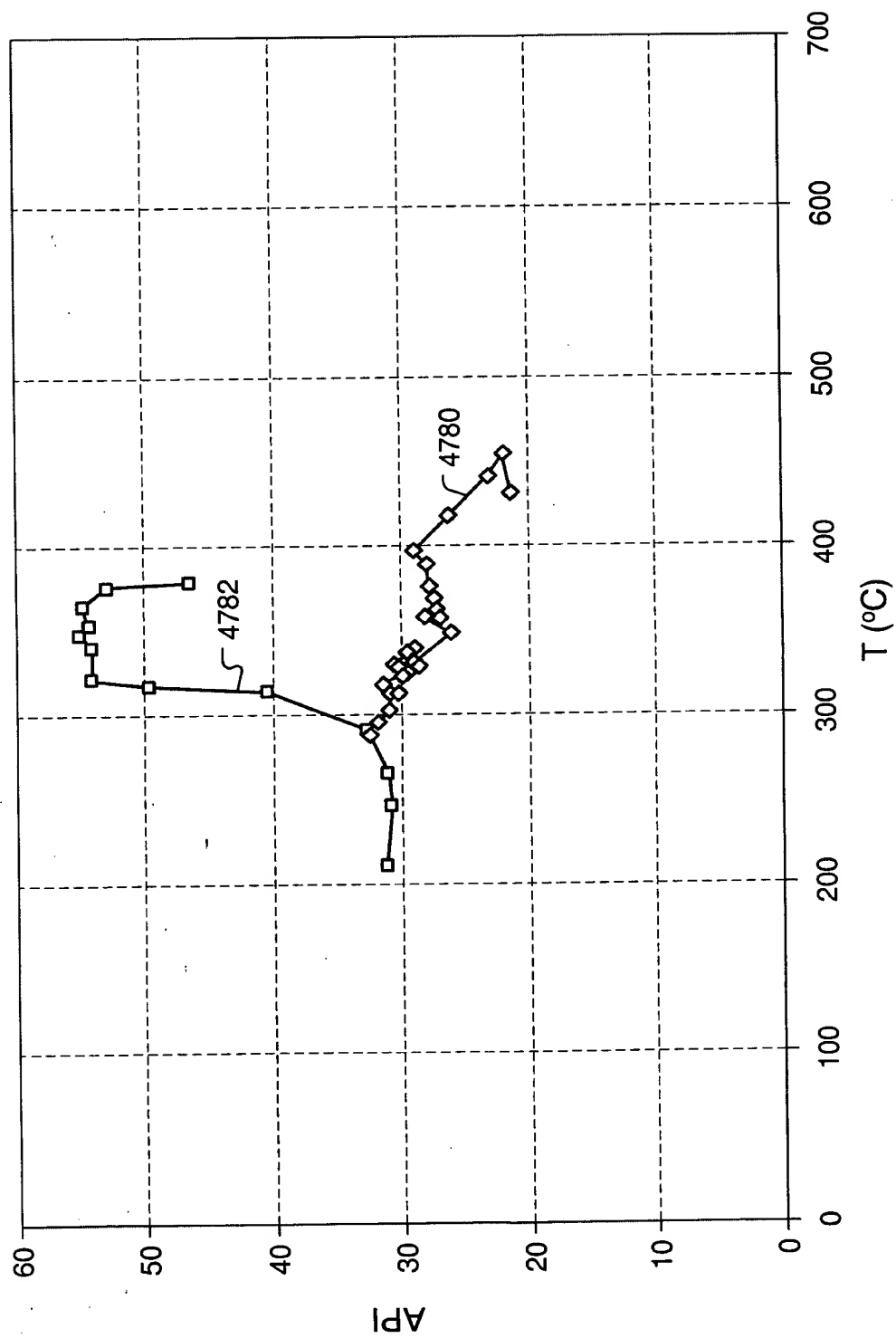
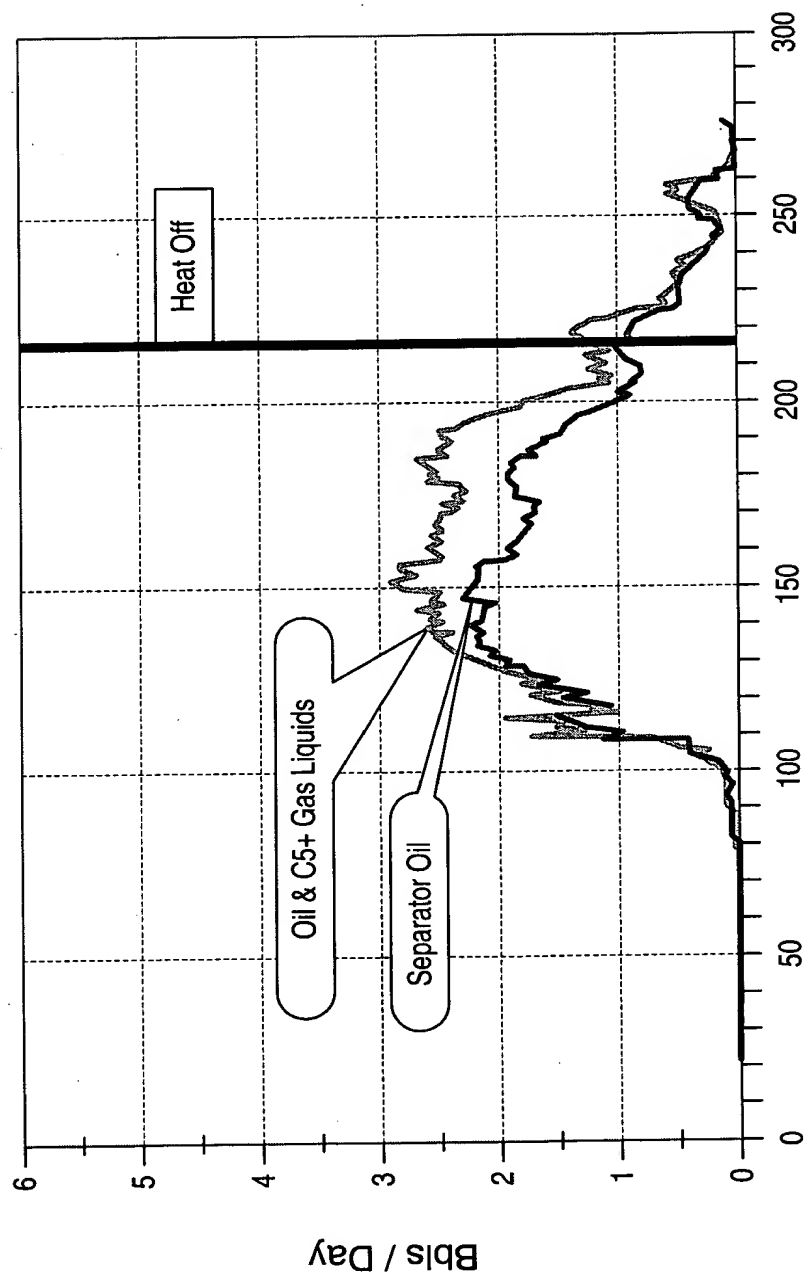


FIG. 174



Days From Start of Heat Injection

FIG. 175

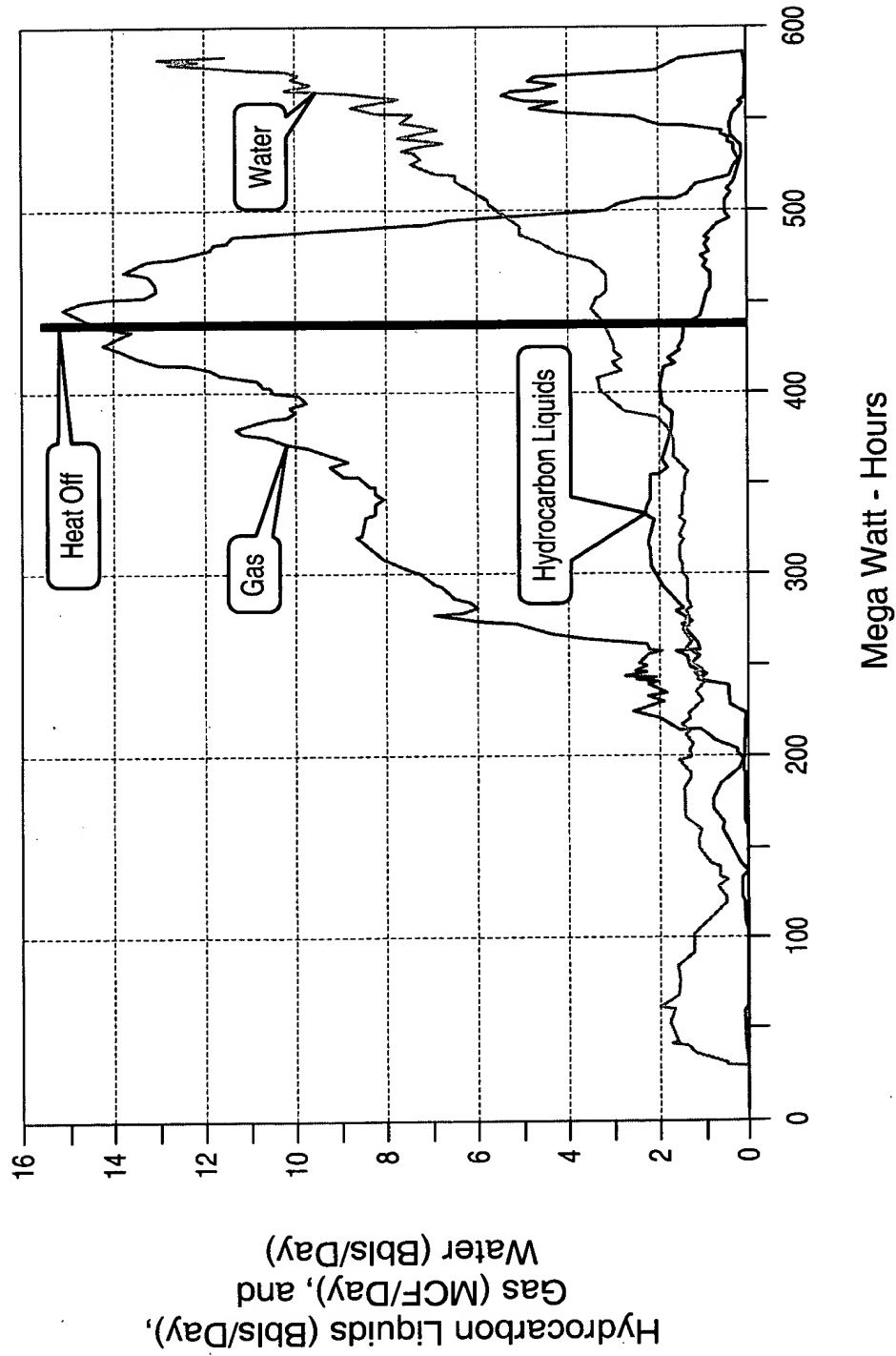


FIG. 176

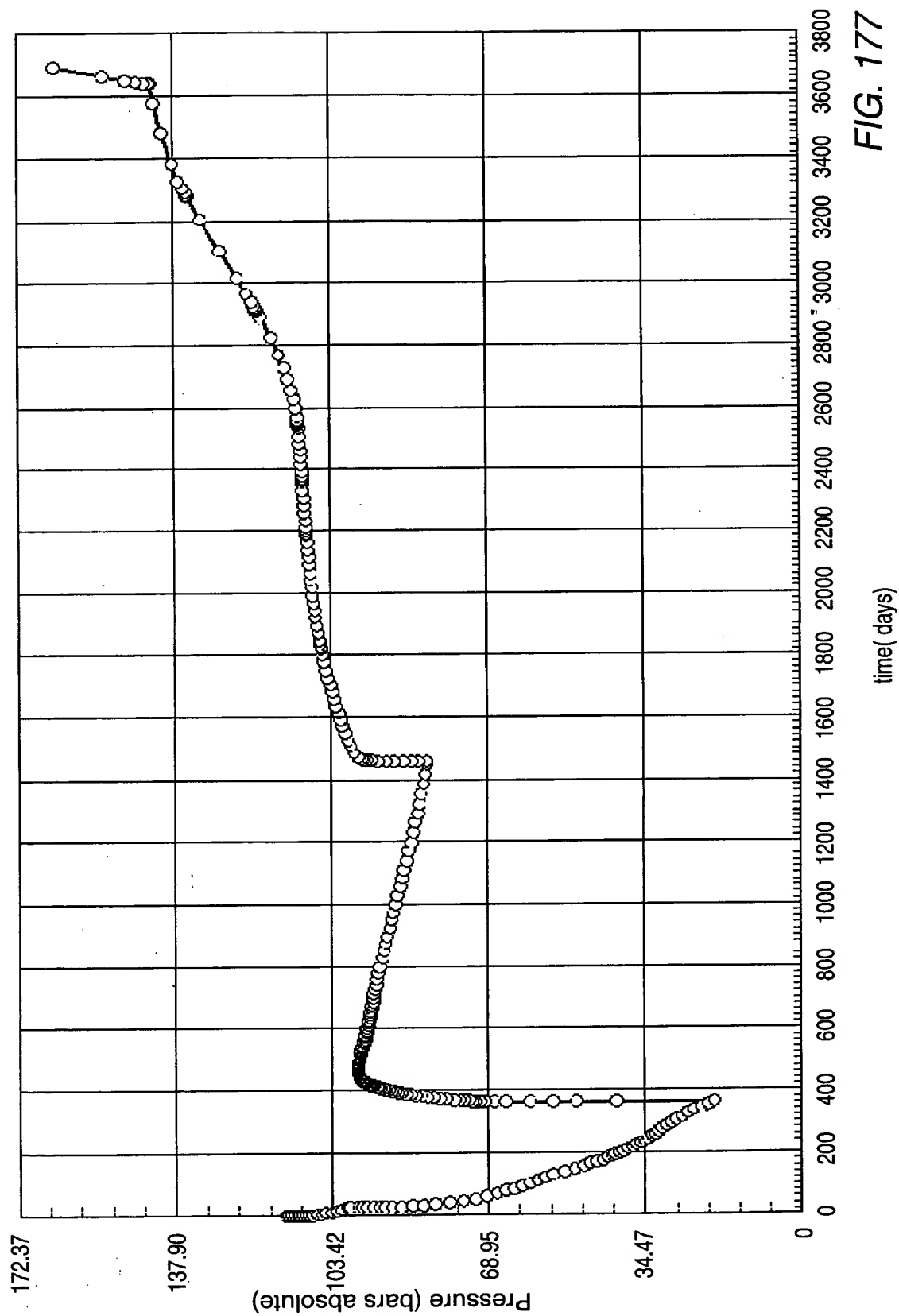


FIG. 177

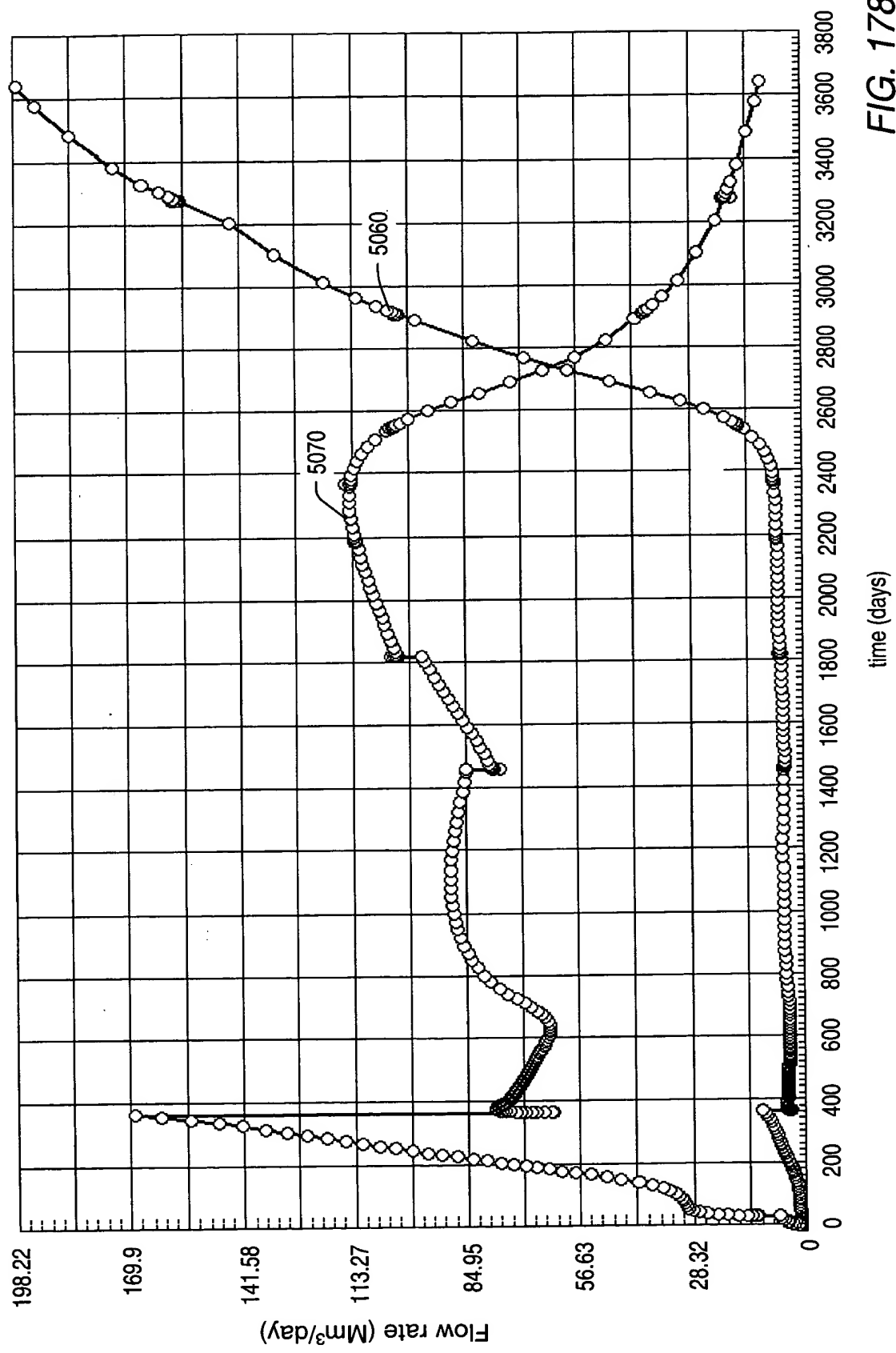


FIG. 178

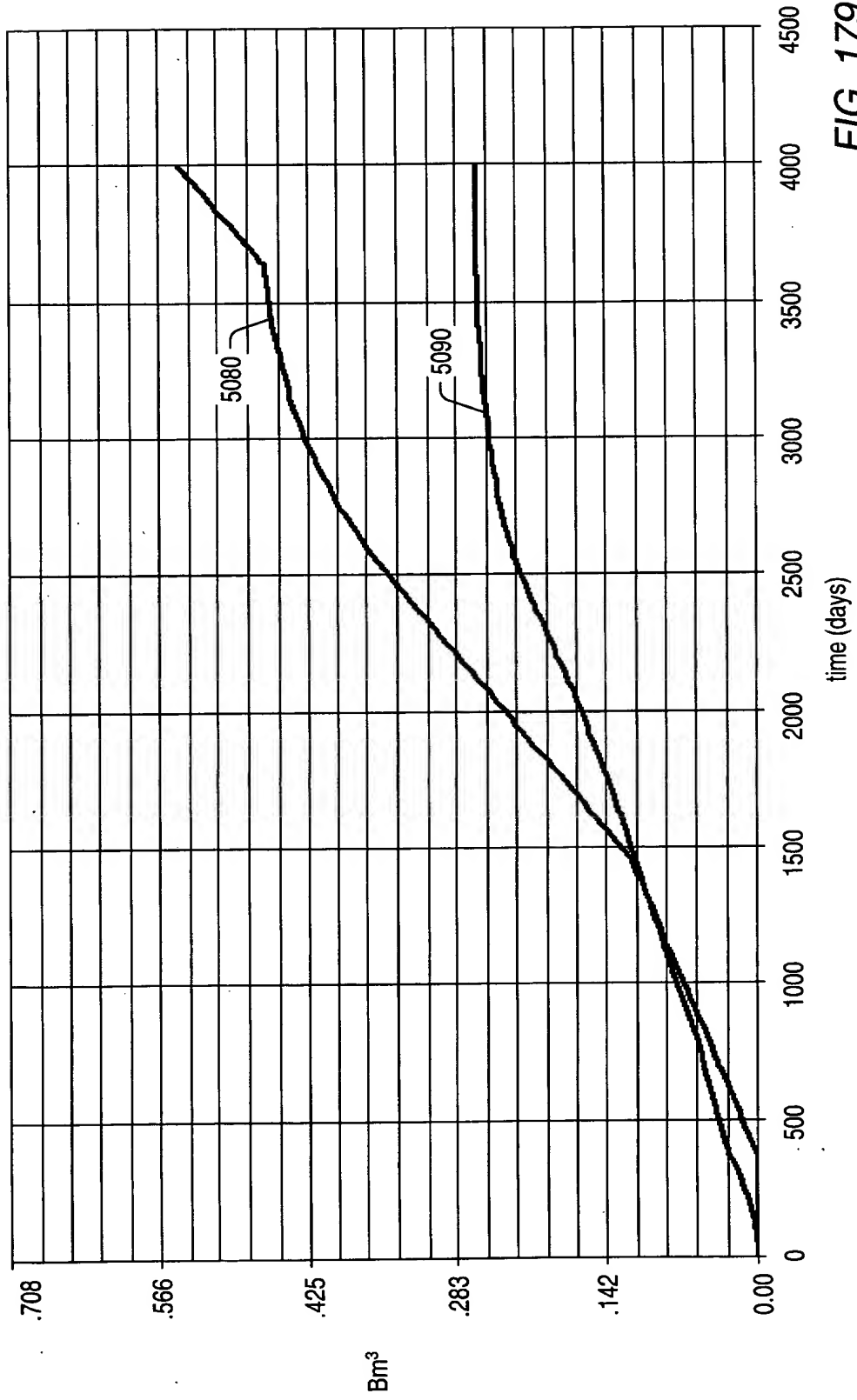


FIG. 179

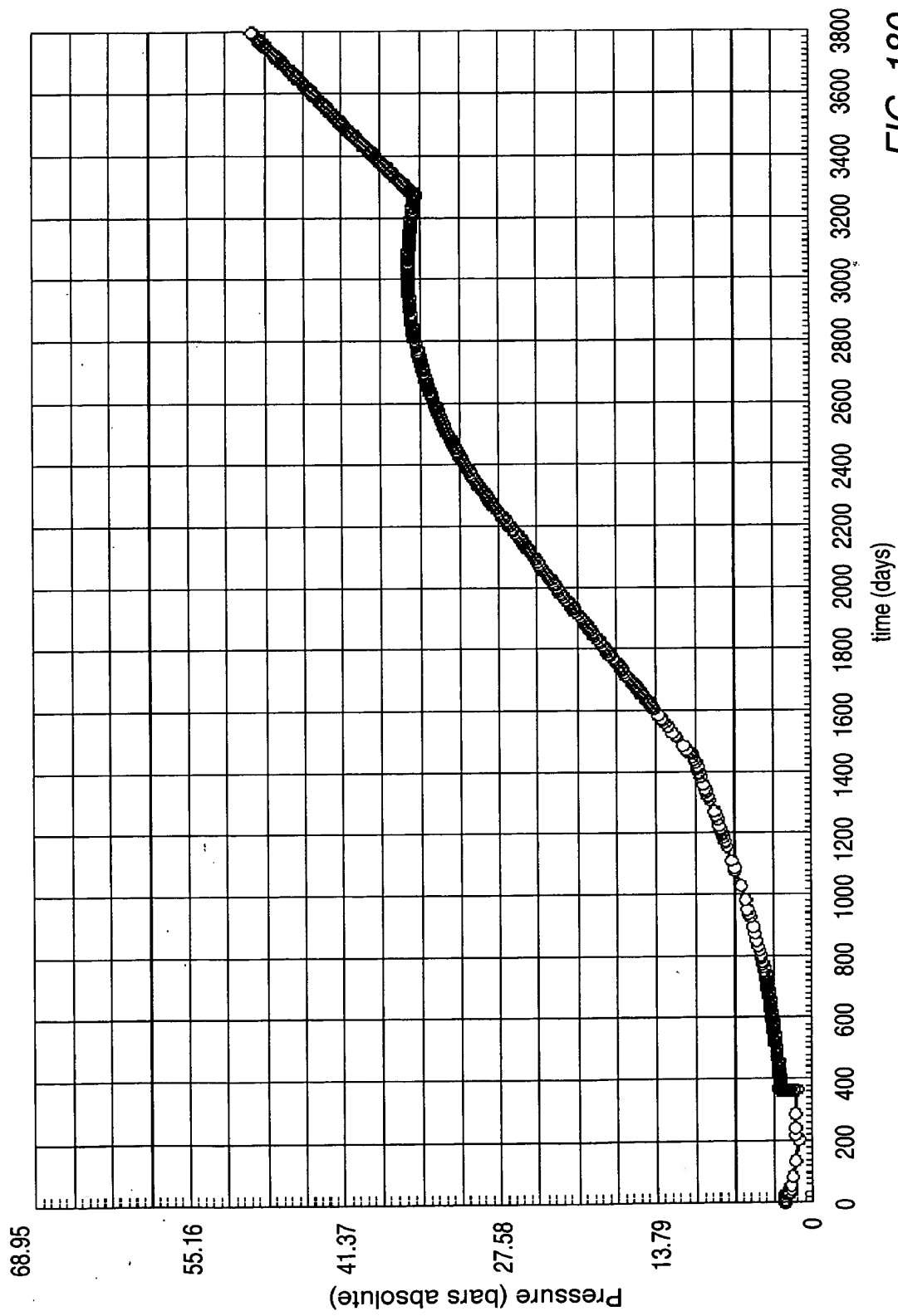


FIG. 180

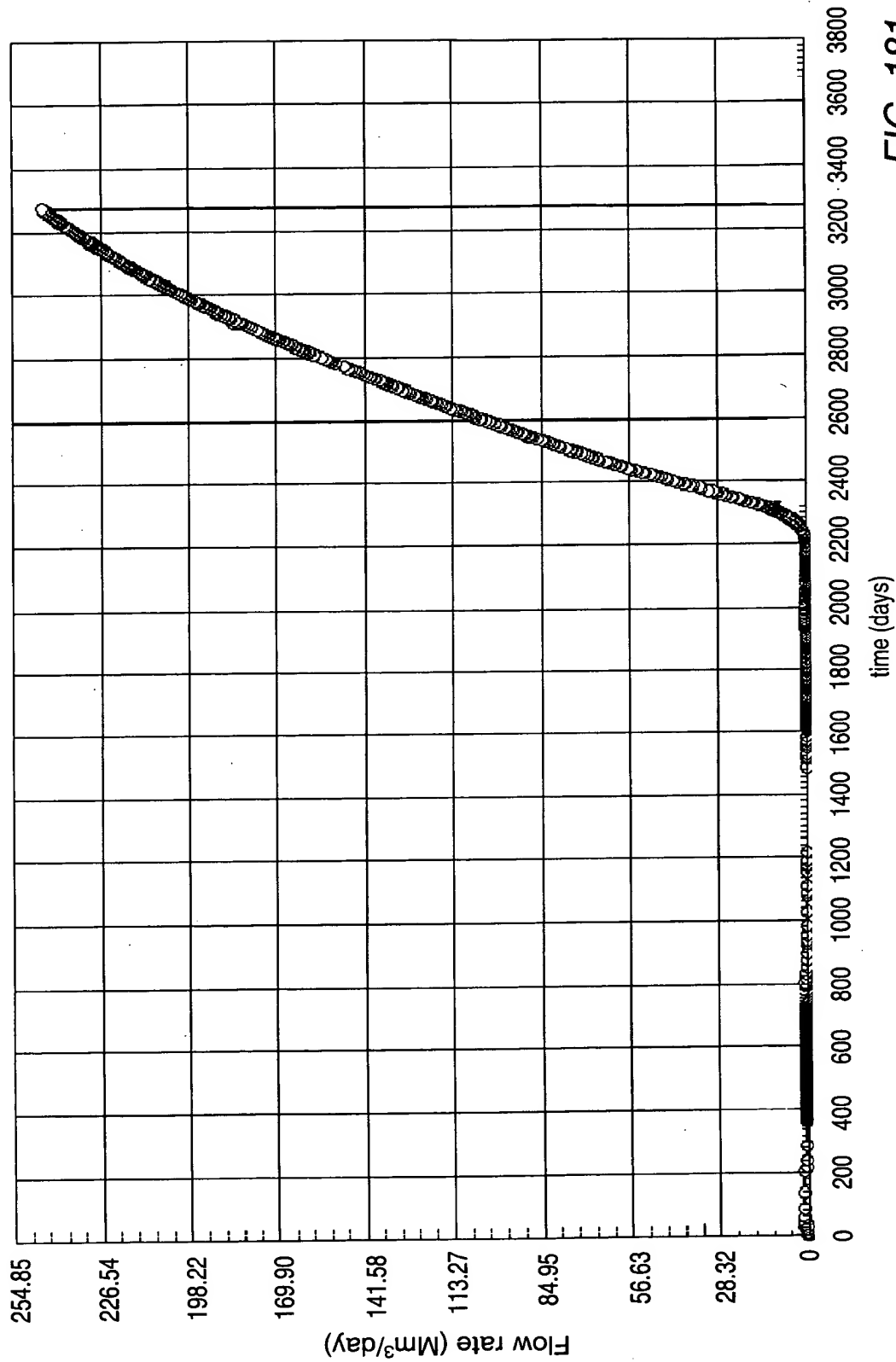


FIG. 181

FIG. 182

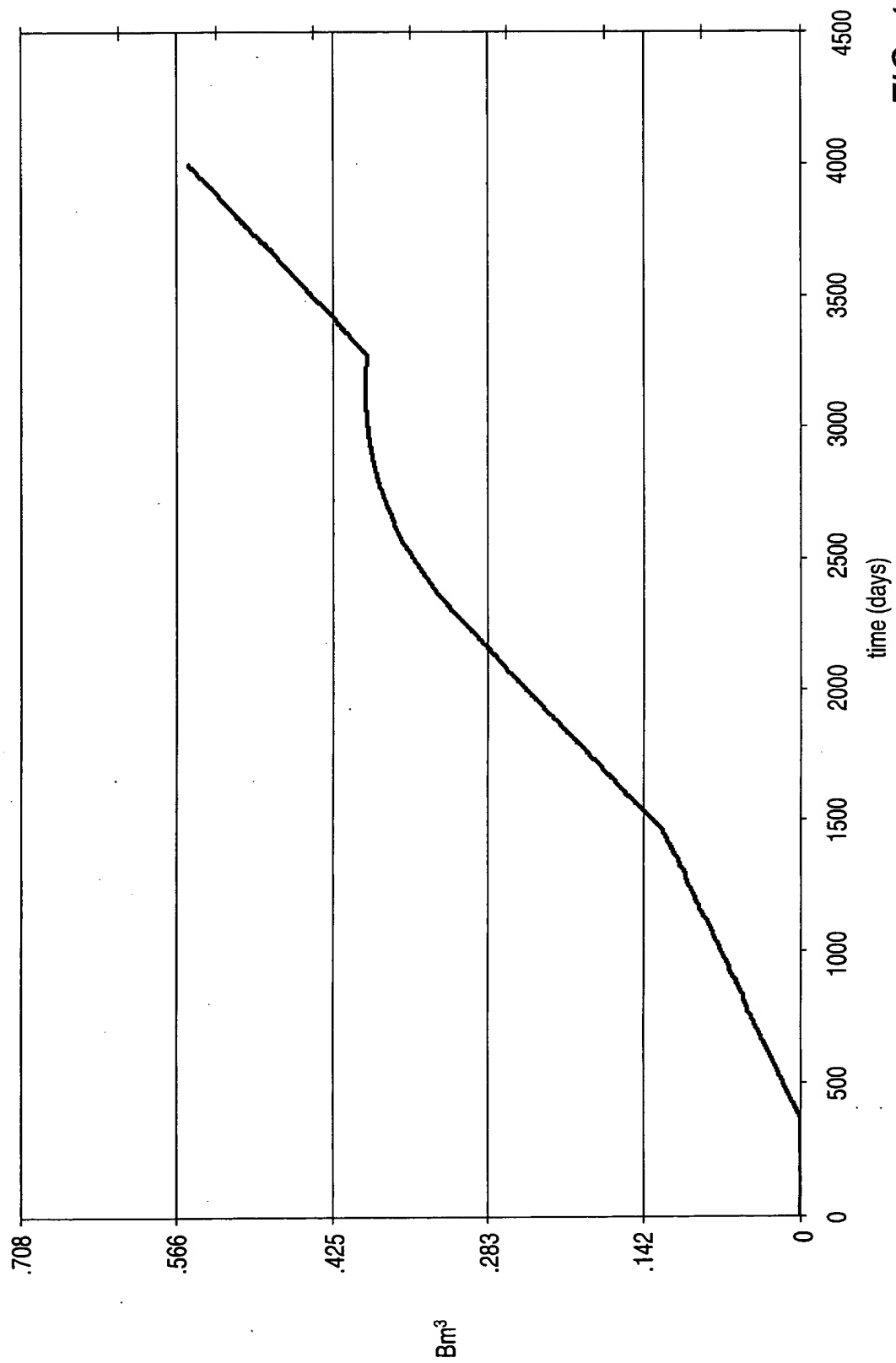


FIG. 182